



# Applying Ecological Gap Analysis as a Tool for Restoration Planning

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Applying Ecological Gap Analysis as a Tool for Restoration Planning

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A Thesis in the Field of Sustainability and Environmental Management  
for the Degree of Master of Liberal Arts in Extension Studies

Harvard University

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## Abstract

Following oil spills, such as the *Deepwater Horizon* oil spill, or the release of other hazardous materials, natural resources and their services can be lost or diminished. Under several federal statutes, natural resource trustees (e.g., federal and state governments) responsible for managing these resources may assess natural resource damages and devise restoration projects to compensate for those losses (U.S.C. §2701 et seq.). During the traditional restoration planning process, natural resource trustees rely on submissions from resource managers as well as the public to identify potential restoration projects. While human resources such as these can be valuable sources of local information, a number of shortcomings have been identified with this process.

This thesis explores how ecological gap analysis – a well-established geospatial analysis developed to identify areas for species conservation – can be used to objectively identify and prioritize locations for natural resource restoration. In order to demonstrate this, injuries to brown pelicans following the 2010 *Deepwater Horizon* oil spill were examined as a case study. A modified ecological gap analysis was used to identify and prioritize areas for land acquisition and breeding habitat enhancement restoration projects. These areas were then compared to brown pelican restoration projects selected by the *Deepwater Horizon* natural resource trustees. I hypothesized that the modified gap analysis would identify different areas and priorities for restoration than what has been identified by the *Deepwater Horizon* oil spill natural resource trustees to date.

After executing the modified ecological gap analysis, large areas of brown pelican habitat were identified for potential acquisition in all five Gulf states. The modified gap

analysis also facilitated prioritization of these areas based on local land prices and development pressure. In addition, brown pelican nesting colonies were prioritized for breeding habitat enhancement projects based on a series of factors: reproductive output, predator risk, erosion risk, and development pressure.

Unlike land acquisition projects, the *Deepwater Horizon* oil spill natural resource trustees have previously implemented breeding habitat enhancement projects. These project locations were compared to the locations identified by the modified gap analysis and a number of differences were identified. Primarily, most of the projects were implemented in Texas, an area identified as a low priority by the gap analysis. In addition, most of the projects did not occur on the most productive or the most threatened breeding colonies, and three projects (out of eight) occurred in areas that had not been identified as brown pelican colonies.

These results show how a modified ecological gap analysis approach can address limitations of the traditional restoration planning process. In addition to providing a comprehensive view of restoration opportunities, it can also improve transparency by outlining the specific decision rules that are used to identify and prioritize those opportunities. While this approach cannot replace all aspects of traditional restoration planning, particularly for large restoration efforts like the one for the *Deepwater Horizon* oil spill, it can be a valuable supplement to that process.

## Acknowledgements

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## Acronyms and Definitions

CERCLA: Comprehensive Environmental Response and Liabilities Act. A piece of legislation passed for the protection and restoration of natural resources and their services following the release of hazardous substances.

Brown pelican (BRPE): large sea birds that inhabit coastal areas along the southern and western shores of the United States. They prefer to live in colonies on isolated islands free of predators (Cornell Lab of Ornithology, n.d.).

Ecological gap analysis: a geospatial analysis where pertinent data on species distributions is mapped with currently protected areas and analyzed to identify areas for protection (Scott et al., 1993).

*Deepwater Horizon* oil spill: an oil spill that occurred in 2010. Approximately 134 million gallons of oil were released into the Gulf of Mexico after the *Deepwater Horizon* mobile drilling unit failed releasing oil from the Macondo well for 87 days (NOAA, 2016).

Natural resources: the “land, fish, wildlife, biota, air, water, ground water, drinking water supplies, and other such resources” (42 U.S.C. §9601).

Natural resource trustees: the federal government, state governments, local governments, foreign governments, or Indian tribes who are responsible for the management and protection of public resources.

OPA: Oil Pollution Act. A piece of legislation passed for the protection and restoration of natural resources and their services following oil spills.

Restoration planning: The third step in the process of natural resource damage assessment and restoration planning. The process consists of the following sub-steps: 1) selection of the preferred restoration approach, 2) identification of appropriate restoration goals, 3) identification of appropriate restoration techniques, 4) project identification, and 5) project selection.

Restoration technique: specific approaches or actions used for the restoration of injured natural resources (e.g., land acquisition).

Restoration type: categories of natural resources to be restored (e.g., “birds”, “marine mammals”, or “water quality”).

## Chapter I

### Introduction

Following oil spills or the release of other hazardous materials, natural resources and their services can be lost or diminished. Natural resources are held in trust by state and federal governments and/or Indian tribes on behalf of the public (33 U.S.C. §2701 et seq.). As such, these trustees have the ability under the Comprehensive Environmental Response and Liabilities Act (CERCLA) and the Oil Pollution Act (OPA) to assess natural resource damages and devise restoration projects to compensate for those losses (33 U.S.C. §2701 et seq.). However, while there are several statutory guidelines for how restoration projects should be selected from a set of possible options, only minimal guidelines exist for dictating how restoration projects should be identified (15 C.F.R. §990).

Currently, restoration projects are solicited from the public or identified by state or federal resource managers (NOAA, 2016). While these human resources can be valuable sources of local information, this process is subjective and may not provide a comprehensive suite of project options. A more comprehensive and objective tool for project identification could address several deficiencies of the traditional restoration planning process by providing: 1) a meaningful context for project suggestions from human resources, 2) additional transparency to the public during the restoration planning process, and 3) additional justification for selected restoration projects should they become challenged in court.

## Research Significance and Objectives

Ecological gap analysis is a tool that was developed in the early 1990s to meet similar challenges faced by conservation planners because the traditional, species-specific conservation approach was not providing comprehensive protection of all biodiversity (Scott et al., 1993). Ecological gap analysis is now a well-established tool that uses spatial analysis to identify and prioritize areas for conservation (UNEP, n.d.). However, this broad framework overlaps well with the ultimate goal of restoration planning: to identify and prioritize areas for the restoration of natural resources. Therefore, this thesis explores the extent to which ecological gap analysis can be used to improve the process of natural resource restoration planning under CERCLA and OPA. Specifically, using the 2010 *Deepwater Horizon* oil spill as a case study, I demonstrate that ecological gap analysis:

1. Can be used as an objective means to identify and prioritize areas for natural resource restoration, and
2. Can identify areas for restoration that may not be identified through traditional project solicitation processes.

## Background

The *Deepwater Horizon* oil spill in 2010 was the largest maritime oil spill in United States history. During that incident, approximately 134 million gallons of oil were released into the Gulf of Mexico (NOAA, 2016). As a result, hundreds of thousands of marine organisms “as diverse as deep-sea coral, fish and shellfish, productive wetland habitats, sandy beaches, birds, endangered sea turtles, and protected marine life” were

killed or injured (NOAA, 2016). Ecological services that supported local economies and subsistence lifestyles as well as recreational uses were also severely impacted (NOAA, 2016).

### The Purpose and Need for Restoration Planning

Natural resources and their associated ecological services belong to the public and are held in trust by state and federal governments as well as Indian tribes (33 U.S.C. §2701 et seq.). As a result, several laws have been passed granting these natural resource trustees the statutory authority to assess and seek damages from responsible parties for injuries to natural resources and their services on the public's behalf. The two most prominent statutes are the Comprehensive Environmental Response and Liabilities Act (CERCLA) and the Oil Pollution Act (OPA), which was passed in direct response to the 1989 *Exxon Valdez* oil spill (EPA, 2015). Under both of these statutes, state and federal natural resource trustees, as well as Indian tribes, have the authority to assess natural resource damages that result from the release of hazardous substances and devise restoration projects to compensate the public for those losses (33 U.S.C. §2701 et seq.). Once the trustees determine that restoration actions will be necessary to, and can, ameliorate natural resource injuries, they embark on restoration planning.

### Restoration Planning under CERCLA and OPA

Natural resource damage assessment and restoration planning under CERCLA and OPA consists of a four step process (Figure 1): 1) the pre-assessment phase, where ephemeral data collection occurs (e.g., collection and counting of killed animals); 2)



injury quantification, where data collected from field and lab studies is analyzed to determine the total magnitude of natural resource injuries; 3) the restoration planning phase, where restoration projects are selected and scaled; and, 4) the restoration implementation phase (NOAA, 2016). The research presented in this thesis focuses on the restoration planning portion of this process, which is discussed in additional detail below.

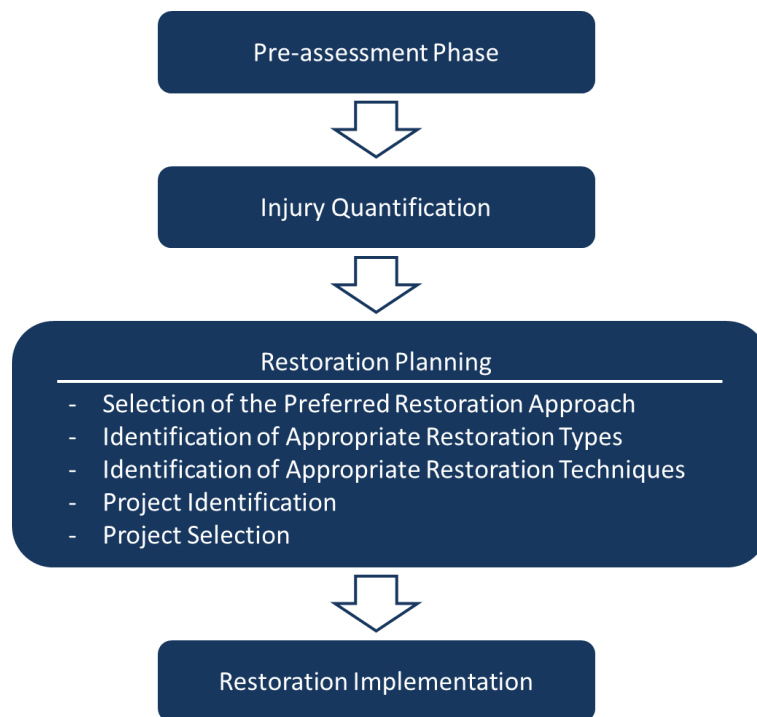


Figure 1. Natural resource damage assessment and restoration planning process (adapted from NOAA, 2016).

The restoration planning phase consists of a series of nested decisions that has the ultimate goal of addressing natural resource losses. After natural resource trustees determine their preferred restoration approach and associated restoration types, they then develop specific restoration techniques, which are the specific actions that will be

implemented to restore natural resources (NOAA, 2016). These restoration techniques guide the process of restoration project identification and selection, which seeks to identify and select the geographic locations where different restoration techniques can be applied.

For the *Deepwater Horizon* oil spill, the trustees explored a number of restoration alternatives (including natural recovery) before selecting “Comprehensive Integrated Ecosystem Restoration” as their preferred restoration approach. This would allow them to develop an integrated restoration portfolio that would maximize potential synergies among restoration projects (NOAA, 2016). Under this broad restoration approach, the trustees then identified numerous restoration goals and types (Figure 2, NOAA, 2016). Specific restoration techniques were selected for each restoration type.

The most important part of the restoration planning process is project identification and selection since it is the restoration projects that will ultimately lead to the recovery of natural resources and their services. While OPA outlines six specific criteria that dictate how projects should be selected from a range of identified alternatives, the only statute related to project identification states that the trustees must consider “a range of reasonable alternatives” (15 C.F.R. §990). Natural resource trustees currently rely on state and federal natural resource managers as well as the public to develop this reasonable range of alternatives. For example, starting shortly after the spill, the *Deepwater Horizon* Trustee Council has continually solicited restoration project proposals from the public via an online project submission site (*Deepwater Horizon* Trustee Council, n.d.).

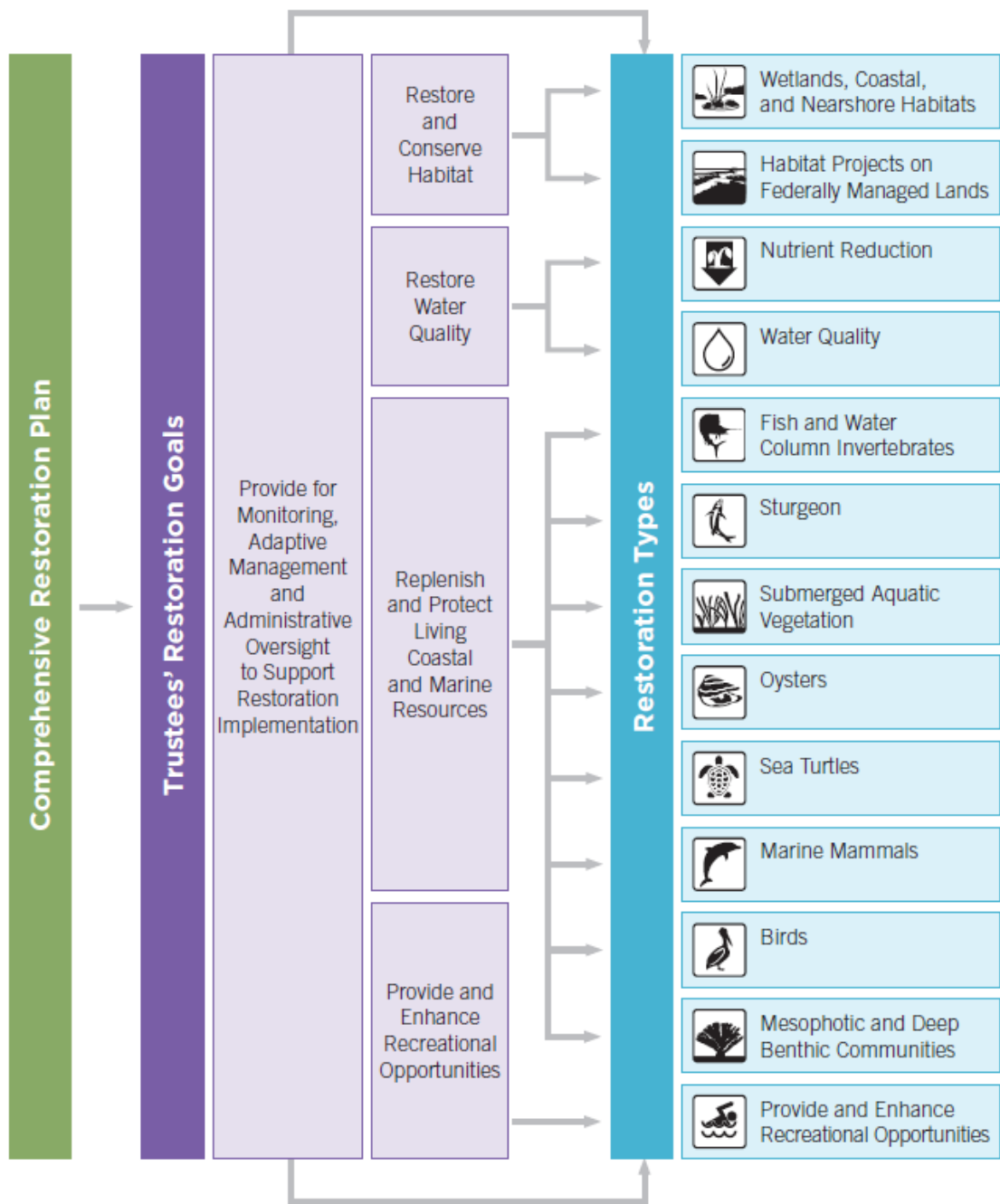


Figure 2. The *Deepwater Horizon* restoration planning framework (NOAA, 2016).

## Deficiencies in the Current Project Identification Process

The traditional restoration project identification process has a number of potential shortcomings. First, it can be highly subjective. The resulting range of alternatives can be highly related to the biases of the individuals submitting projects. For example, if there is a large concentration of resource managers or non-governmental organizations involved in the research and protection of one particular species in one particular area, there may be a disproportionate number of project submissions to address that resource in that area, to the exclusion of other, potentially preferred locations.

In addition, the current project identification process can lack adequate public transparency. While project submissions from the public are typically made available online, project submissions from state and federal personnel may not be made available. This can create a situation where restoration planning becomes a black box, and has been a source of frequent frustration for the public. For example, at a 2010 hearing held by the Senate Subcommittee on Water and Wildlife, the Conservation Science Director for the Ocean Conservancy testified that one of the biggest issues with the *Exxon Valdez* natural resource damage assessment and restoration planning process was a lack of transparency (Subcommittee on Wildlife and Water, 2010). More recently, public comments on restoration plans related to the *Deepwater Horizon* oil spill have included requests to see the range of alternatives considered by the trustees as well as for more involvement and transparency (DOI, 2014). These public concerns are particularly important given that restoration planning is done on the public's behalf to restore the public's natural resources.

## Applying Ecological Gap Analysis as a Tool for Restoration Planning

Until recently, the conservation planning community faced similar challenges in determining how to identify areas for protection. Prior to the 1990s, the traditional approach to conservation planning was “to proceed species by species and threat by threat” (Scott et al., 1993). Because conservation planners tended to focus on charismatic megafauna, the resulting process was biased, inefficient, and missed large swaths of biodiversity (Scott et al., 1993). The process of ecological gap analysis was eventually developed to address these challenges.

The process of ecological gap analysis seeks to comprehensively and objectively identify key biodiversity areas and prioritize their protection (Scott et al., 1993). It consists of a geospatial analysis where data on species distributions is overlaid with a map of currently protected areas and analyzed to identify areas for protection (i.e., gaps, or places where species’ distributions are not encompassed in current networks of protected areas) (Scott et al., 1993; USGS, 2015; UNEP, n.d.). Due to the efficiency and success of this approach, it has been adopted by both the United States and well as the United Nations as the primary tool for implementing biodiversity protection (USGS, 2015; UNEP, n.d.). For example, in the United States, gap analysis has been used to identify large mammal migration routes that are most at risk to human disturbance as well as to analyze how existing wildlife refuges in Indiana and Illinois could be enhanced through future acquisitions (USGS, 2012). Internationally, the United Nations Convention on Biological Diversity states that by 2006 national and regional gap analyses should be completed by all parties (UNEP, n.d.). As a result, ecological gap

analyses have been done for numerous countries and regions, including Mexico, Turkey, and Central Africa, to name just a few (UNEP, n.d.).

Given the broadly similar goals between restoration planning under CERCLA and OPA and biodiversity conservation planning – trying to identify and prioritize locations where species can be restored or protected – ecological gap analysis could be a tool for improving the traditional approach to restoration planning. Ecological gap analysis could be adapted to the restoration planning process to provide a similarly comprehensive and objective methodology for the identification of areas for the application of specific restoration techniques. Natural resource trustees would then be able to share the decision rules and results of these modified ecological gap analyses as a way of providing more transparency to the public and as further justification that they have met their obligation to identify a reasonable range of alternatives.

#### Brown Pelican Injuries Resulting from the *Deepwater Horizon* Oil Spill as a Case Study

The *Deepwater Horizon* oil spill provides an ideal case study for research examining the potential of using ecological gap analysis as a tool for restoration planning under CERCLA and OPA. The *Deepwater Horizon* oil spill is the largest maritime oil spill in United States history (NOAA, 2016). Due to its magnitude, there is a need for many restoration projects. In addition, shortly after the incident, the *Deepwater Horizon* Trustee Council entered into an agreement with BP Exploration and Production, Inc. (British Petroleum, the responsible party for the oil spill) known as the Framework Agreement. Under the Framework Agreement, BP provided up to \$1 billion in funds to initiate restoration prior to the full assessment and settlement of damages (NOAA, 2016).

This process, known as “Early Restoration,” led to the implementation of numerous restoration projects that will provide the baseline for this analysis.

Because it would be time prohibitive to examine all natural resources injured as a result of the *Deepwater Horizon* oil spill, brown pelicans (*Pelecanus occidentalis*) have been selected as the focal natural resource for this analysis. Brown pelicans experienced one of the largest individual species injuries (12,000 to 28,000 individuals were estimated as killed) related to the spill (NOAA, 2016). To address these injuries, several restoration projects were implemented to restore brown pelicans as part of the Early Restoration process. As a result, there is a sufficient sample size of projects that were selected using the traditional restoration approach to compare to my results of the gap analysis. In addition, there is sufficient data available on brown pelicans to conduct a modified ecological gap analysis.

#### Brown Pelican Life History Information for the Northern Gulf of Mexico

Brown pelicans (*Pelecanus occidentalis*) are year-round residents in the northern Gulf of Mexico, which has been defined by the *Deepwater Horizon* natural resource trustees as the coastal area covering just south of Galveston Bay, Texas to the Florida Panhandle (Shields, 2014; DOI, 2014). Brown pelicans are a colonial species, meaning that they breed in concentrated colonies that can include up to several thousand breeding pairs (Shields, 2014). These colonies are usually located on estuarine or offshore islands where threats from disturbance and predators are minimized (Shields, 2014). During the breeding season, brown pelicans usually remain within 20 kilometers of the breeding colony, but outside of the breeding season, this distance expands to 75 kilometers

(Shields, 2014). Brown pelicans primarily forage on surface-schooling fishes in shallow waters less than 150 meters in depth (Shields, 2014).

The largest threat to brown pelicans is nest predators, including primarily gulls (e.g., yellow-footed gulls, laughing gulls, and herring gulls) as well as raccoons (Shields, 2014). Nest predation is often facilitated by human disturbance, which causes temporary nest abandonment (Shields, 2014). Human disturbance at breeding colonies can also reduce reproductive success through other mechanisms, and in some breeding colonies in California, has been shown to reduce overall reproductive output by more than half (Shields, 2014). Other causes of mortality include: pesticides and other contaminants, oil pollution, collisions with stationary or moving structures, entanglement in fishing gear, and habitat degradation (Shields, 2014).

Based on these life history traits, the *Deepwater Horizon* natural resource trustees identified a number of restoration techniques that could be used to restore brown pelicans and other injured bird species. These include: 1) restore lost birds by facilitating additional production and/or reduced mortality of injured bird species, 2) restore or protect habitats on which injured birds rely, and 3) restore injured birds by species where actions would provide the greatest benefits within geographic ranges that include the Gulf of Mexico (NOAA, 2016). In this thesis I focus on a subset of these approaches and apply a modified ecological gap analysis to identify locations for land acquisition projects to protect brown pelican habitat and breeding habitat enhancement projects that reduce mortality or improve reproduction.



## Research Question and Hypotheses

The primary research question I address is: Can gap analysis can be applied as a tool for natural resources restoration planning under CERCLA and OPA? Specifically, I hope to demonstrate that this approach can result in a more comprehensive and objective set of potential restoration projects and priorities than traditional restoration planning. This question was examined by conducting a modified ecological gap analysis that identified and prioritized areas for the application of the land acquisition and breeding habitat enhancement restoration techniques devised to restore brown pelican injuries resulting from the *Deepwater Horizon* oil spill. These resulting project locations were compared to the restoration projects selected for brown pelican restoration as part of Early Restoration in order to draw conclusions about differences between the two approaches. I hypothesized that:

1. The areas identified using ecological gap analysis will be different than those chosen or currently proposed for brown pelican restoration following the *Deepwater Horizon* oil spill.
2. The order in which restoration projects were selected for brown pelicans following the *Deepwater Horizon* oil spill will not match the priority order identified by the ecological gap analysis.

## Chapter II

### Methods

The methods utilized in this research thesis are modeled after the methods employed by the United Nations Convention on Biological Diversity (UNCBD) as well as the United States Geological Survey Gap Analysis Program (USGS GAP). Both of these sources represent the most current and authoritative source of methodological information related to gap analysis internationally as well as in the United States. The traditional steps for conducting a gap analysis as outlined by the UNCDB and USGS GAP have been modified as necessary to achieve the slightly different goal of this research: to identify and prioritize areas for the application of land acquisition and breeding habitat enhancement restoration techniques for brown pelican restoration in the northern Gulf of Mexico.

After obtaining distribution and life history information on brown pelicans in coastal areas of the northern Gulf of Mexico, as well as additional data on factors impacting the quality and availability of brown pelican nesting habitat, a modified ecological gap analysis was conducted for each restoration technique. These analyses identified spatial locations where each restoration technique could be implemented in the northern Gulf of Mexico. After the identification of potential restoration areas using gap analysis, the identified areas were compared to the areas selected or proposed for brown pelican restoration by the *Deepwater Horizon* Trustee Council.

## Modified Gap Analysis

The first research task was to conduct a gap analysis to identify and prioritize areas for land acquisition and breeding habitat enhancement projects to restore brown pelicans in the northern Gulf of Mexico. The USGS GAP outlines a series of three steps for completing a gap analysis: 1) map the land coverage of the dominant ecological systems along with species' ranges and distributions, 2) map protected areas, and 3) conduct an analysis to determine the proportion of a habitat or species' distribution that occurs in an area "managed for the long term protection of biodiversity" (USGS, 2015a). These steps are very similar to the 5-step gap analysis process outlined in the UNCBD's "Gaps Guide", a set of reference materials for governments and others wishing to conduct a gap analysis on a national system of protected areas (UNEP, n.d.). However, the United Nation's methodology adds an additional step at the beginning and end of the USGS GAP methodology. These additional steps are 1) identify focal biodiversity and set key targets, and 2) prioritize the gaps to be filled. This more comprehensive five-step process is the basis for the modified gap analysis conducted in this thesis. The five steps developed by the UNCBD (UNEP, n.d.) are:

1. Identify focal biodiversity and set key targets;
2. Evaluate and map the occurrence and status of biodiversity;
3. Analyze and map the occurrence and status of protected areas;
4. Use the information to identify gaps; and
5. Prioritize the gaps to be filled.

In order to apply this framework for gap analysis to restoration planning under CERCLA and OPA, the five steps were modified as follows:

1. Identify the focal resource (e.g., brown pelicans) and the specific restoration techniques that could be used for restoration (e.g., land acquisition and breeding habitat enhancement);
2. Map the current extent of the focal resource (e.g., the current distribution of brown pelicans in the northern Gulf of Mexico);
3. For each restoration technique, analyze and map the key factors that will dictate where that technique may be applied;
4. Use the results of the mapping to identify areas where the technique could be successfully applied; and
5. Prioritize the resulting restoration areas.

Step 1 (identify the focal resource and the specific restoration techniques that could be used for restoration) was completed by the *Deepwater Horizon* Trustee Council and is summarized in the *Deepwater Horizon Final Programmatic Damage Assessment and Restoration Plan* (NOAA, 2016). The remaining steps are described in further detail below.

#### Mapping the Current Extent of Brown Pelicans

Step 2 (map the current extent of the focal resource) was completed with data from USGS GAP that was further refined with data from the National Oceanic and Atmospheric Administration's (NOAA's) Environmental Sensitivity Index (ESI), and research published on brown pelican nesting in the five Gulf States: Texas, Louisiana, Mississippi, Alabama, and Florida. USGS GAP publishes species range data for many North American species. Range data is defined as the "geographic limits within which a

species can be found” (USGS, 2016b). USGS GAP range data is organized by the 12-digit hydrologic unit map developed by the USGS and the Natural Resource Conservation Service (USGS, 2016b). The 12-digit hydrologic unit map divides the United States into over 150,000 subwatersheds that are approximately 40 square miles in size (USGS, 2006). In each unit, USGS GAP identifies if a species is present, what time of year the species is present, and if the species is reproductively active in that area (USGS, 2016b). The USGS GAP range map for brown pelicans is shown below (Figure 3).

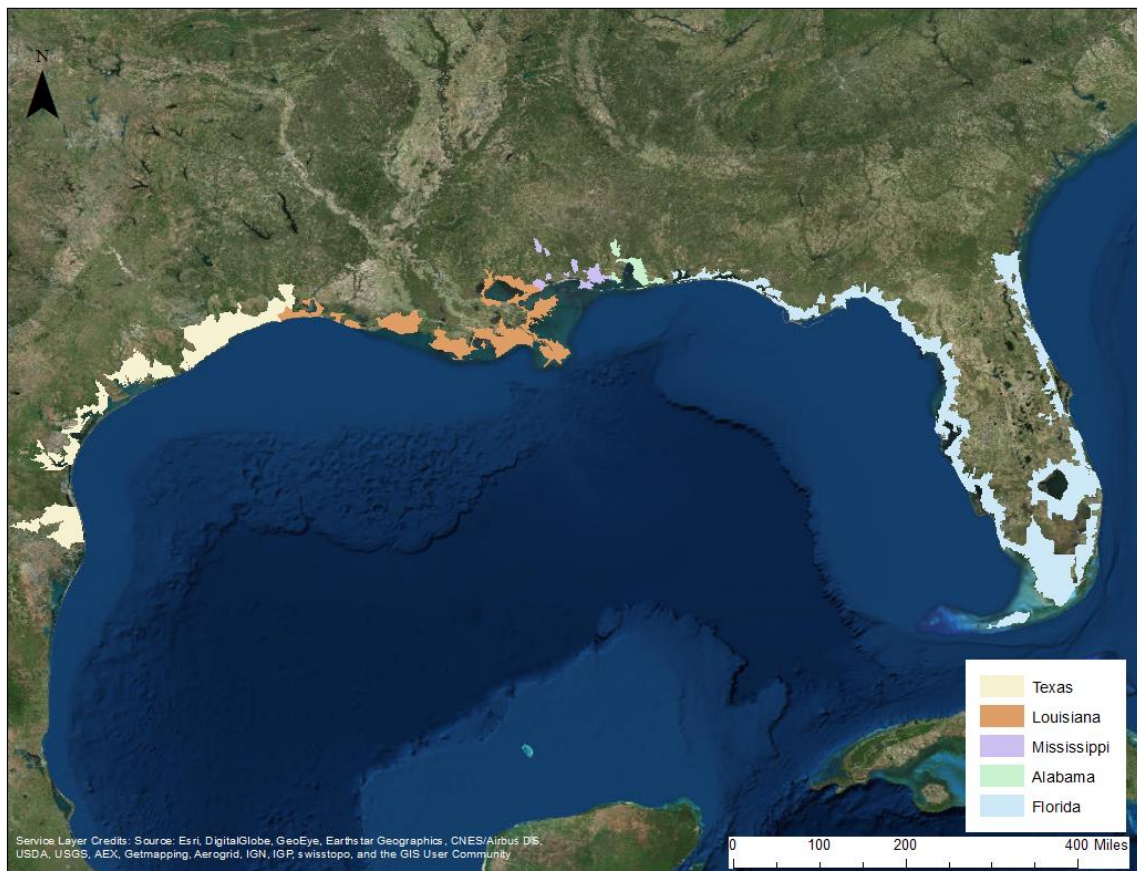


Figure 3. USGS GAP range data for brown pelicans in the Gulf of Mexico (USGS, 2016a).

However, as is evident in Figure 3, the USGS GAP range data does not provide full coverage of the northern Gulf of Mexico coastal area. Most notably, it lacks coverage of the offshore barrier islands, which are known brown pelican nesting areas (Shields, 2014). As a result, this dataset was supplemented with additional brown pelican distribution data. The mission of the NOAA Office of Response and Restoration is to prepare for and respond to threats to coastal environments, including oil spills (NOAA ORR, 2016a). As part of this mission, they have developed the ESI data, which summarize coastal resources that may be impacted by a spill (NOAA ORR, 2016b). Avian resources are one potentially impacted resource, and the ESI data developed for the five Gulf states include polygons identifying coastal areas inhabited by brown pelicans (Figure 4). The ESI data provide coverage for the northern Gulf of Mexico barrier islands. Similar to the USGS GAP data, the NOAA ESI data also include information on brown pelican abundance, breeding use, and seasonal occupation for each polygon. The ESI data were combined with the USGS GAP range data in order to provide a complete picture of brown pelican occupation in the northern Gulf of Mexico (Figure 5).

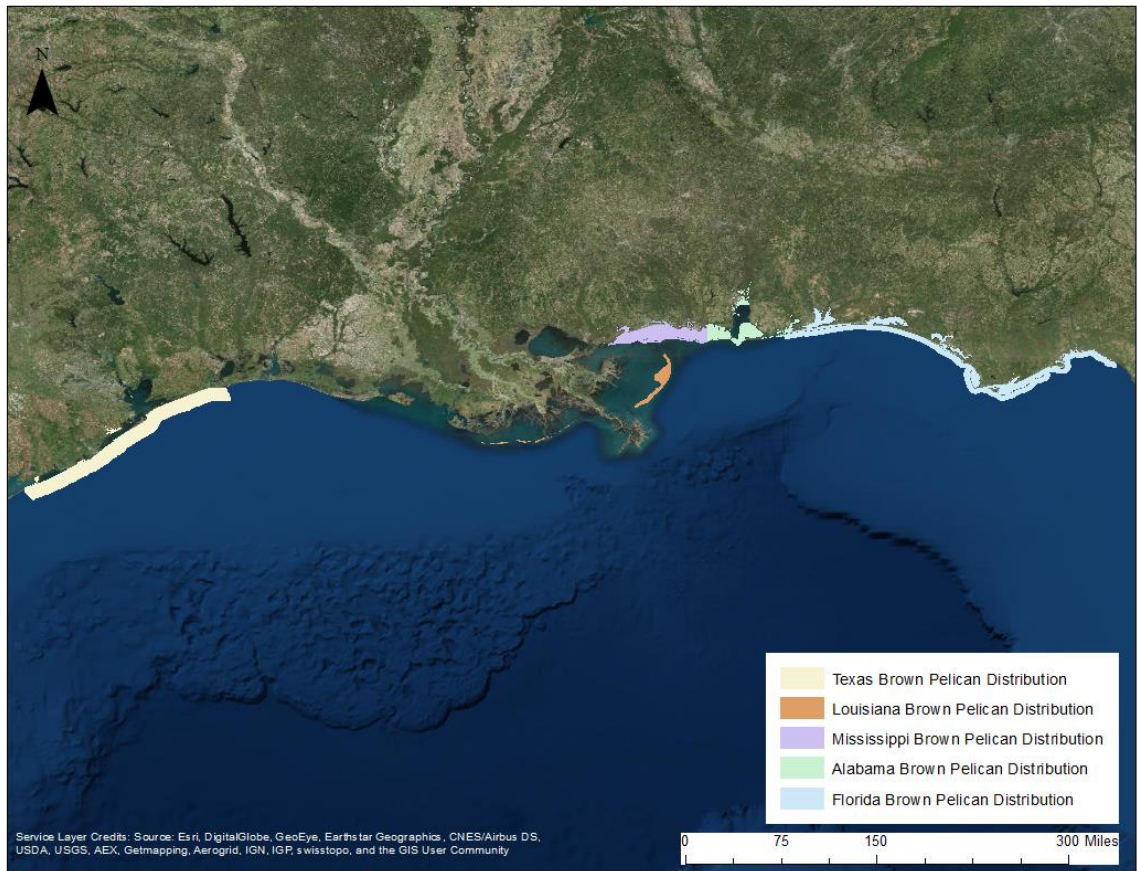


Figure 4. NOAA ESI data for brown pelicans in the northern Gulf of Mexico (NOAA ORR, 2007; NOAA ORR, 2010; NOAA ORR, 2012; NOAA ORR, 2013; NOAA ORR, 2014).



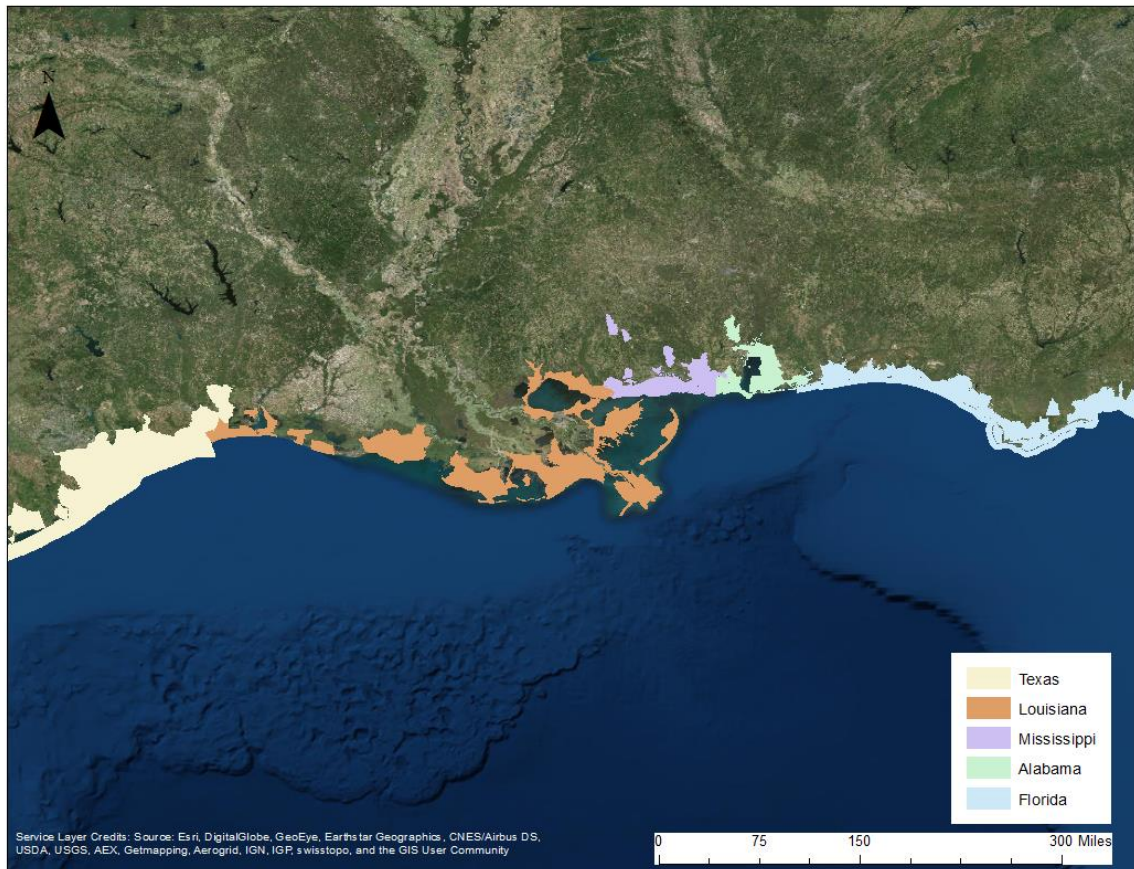


Figure 5. Combined USGS GAP range data and NOAA ESI data for brown pelicans in the northern Gulf of Mexico (NOAA ORR, 2007; NOAA ORR, 2010; NOAA ORR, 2012; NOAA ORR, 2013; NOAA ORR, 2014; USGS, 2016a).

Finally, in order to identify areas where breeding habitat enhancement projects could be implemented I identified current brown pelican nesting colonies in the five Gulf states (Figure 6) through a literature review. A list of these colonies by state is provided in Table 1; an asterisk (\*) next to a colony indicates that the colony is particularly persistent and particularly productive. In addition, while both Cat Island in Mississippi and Wine Island in Louisiana are listed below, neither island currently supports an active brown pelican colony (Selman et al., 2016; Dermansky, 2015). Due to severe oiling from the *Deepwater Horizon* oil spill, the island vegetation on Cat Island was killed and the



island has subsequently eroded to the point where it no longer supports active nests (Dermansky, 2015). Similarly, due to high erosion rates in Louisiana, Wine Island has also eroded to the point where it no longer supports active nests (Selman et al., 2016). However, both islands were included in this analysis since reconstruction of the islands could return them to active breeding colonies.

Table 1. Brown pelican nesting colonies in the northern Gulf of Mexico.

<b>Brown Pelican Nesting Colony</b>	<b>State</b>	<b>Source</b>
Unnamed Island 1*	Texas	E. Johnson, pers. comm., January 19, 2017
Unnamed Island 3*	Texas	E. Johnson, pers. comm., January 19, 2017
North Deer Island*	Texas	E. Johnson, pers. comm., January 19, 2017
Smith Point	Texas	E. Johnson, pers. comm., January 19, 2017
Shell Island	Texas	E. Johnson, pers. comm., January 19, 2017
Goat Island	Texas	E. Johnson, pers. comm., January 19, 2017
Unnamed Island 2	Texas	E. Johnson, pers. comm., January 19, 2017
Rollover Bay Island	Texas	E. Johnson, pers. comm., January 19, 2017
South Deer Island	Texas	E. Johnson, pers. comm., January 19, 2017
Alligator Point	Texas	E. Johnson, pers. comm., January 19, 2017
Grassy Point	Texas	E. Johnson, pers. comm., January 19, 2017
Drum Bay	Texas	E. Johnson, pers. comm., January 19, 2017
Rattlesnake Point	Texas	E. Johnson, pers. comm., January 19, 2017
Dressing Point	Texas	E. Johnson, pers. comm., January 19, 2017
Queen Bess Island*	Louisiana	Visser et al., 2005 & Selman et al., 2016
Raccoon Island*	Louisiana	Visser et al., 2005 & Selman et al., 2016
North Island*	Louisiana	Visser et al., 2005 & Selman et al., 2016
North Breton Island*	Louisiana	Selman et al., 2016
Martin	Louisiana	Selman et al., 2016
Brush	Louisiana	Selman et al., 2016
Wypt 19	Louisiana	Selman et al., 2016
Pelican Point Cluster	Louisiana	Selman et al., 2016
Shallow Bayou	Louisiana	Selman et al., 2016
Baptise Collette	Louisiana	Selman et al., 2016
East Queen Bess Cluster	Louisiana	Selman et al., 2016
Rabbit Island	Louisiana	Selman et al., 2016
Wine Island	Louisiana	Selman et al., 2016

Brown Pelican Nesting Colony	State	Source
Cat Island	Mississippi	Dermansky, 2015
Gaillard Island*	Alabama	Robinson and Dindo, 2011
Audubon Island*	Florida	FWC, 2013
Smith Island	Florida	FWC, 2013
Black's Island	Florida	FWC, 2013
Bird Island	Florida	FWC, 2013

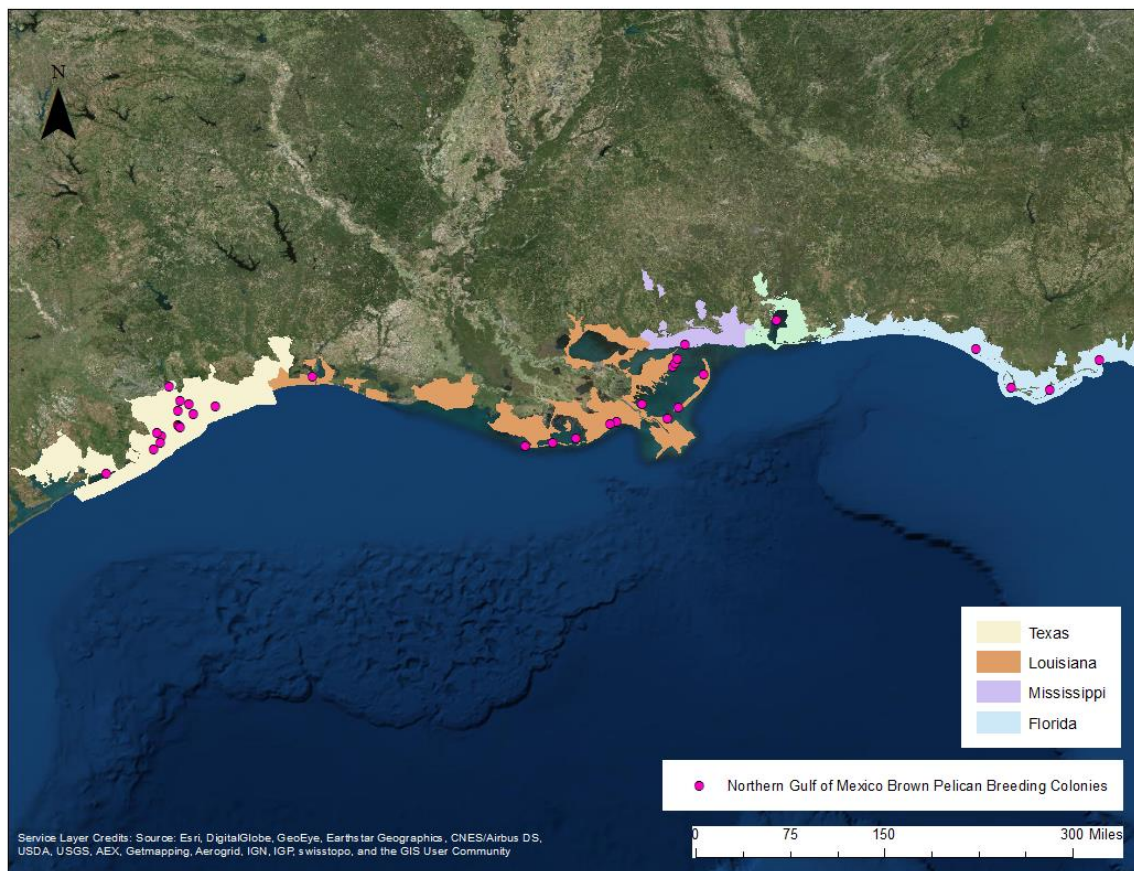


Figure 6. Location of brown pelican breeding colonies in the northern Gulf of Mexico.

### Identifying and Mapping Factors Impacting Restoration

Once the distribution of brown pelicans in the northern Gulf of Mexico was mapped, step 3 of the modified gap analysis was to analyze and map the key factors that

dictate where each of the selected restoration techniques for brown pelicans could be applied. The list of these factors is summarized in Table 2 and discussed in additional detail below.

Table 2. Factors influencing the application of identified restoration techniques for brown pelicans.

Restoration Technique	Preliminary Factors Influencing Application
Land Acquisition	<ul style="list-style-type: none"> <li>• Distribution of brown pelicans in the northern Gulf of Mexico</li> <li>• Existing protected areas (e.g., wildlife management areas and state or national parks)</li> <li>• Breeding habitat requirements for brown pelicans</li> <li>• Human land use data</li> </ul>
Breeding Habitat Enhancement	<ul style="list-style-type: none"> <li>• Distribution of current brown pelican breeding colonies</li> <li>• Shoreline erosion rates</li> <li>• Distribution of brown pelican predators</li> <li>• Human land use data</li> </ul>

Distribution data as well as brown pelican life history information were presented above and in Chapter I. Data on existing protected areas were taken from the NOAA ESI data. The NOAA ESI dataset contains information on the location of several different types of managed and protected areas. These include state and national parks, federal wildlife refuges, state wildlife management areas, and areas protected and managed by conservation groups (NOAA, 2016b). However, the dataset also contains information on managed areas that are not likely to provide any protection for brown pelicans such as oyster lease areas or water management areas. As such, the ESI data were modified to only include areas that are likely to provide conservation protection for brown pelicans (Figure 7). The complete list of all areas that are considered protective of brown pelicans and that are included in this analysis, by state, is provided in the Ancillary Appendix.

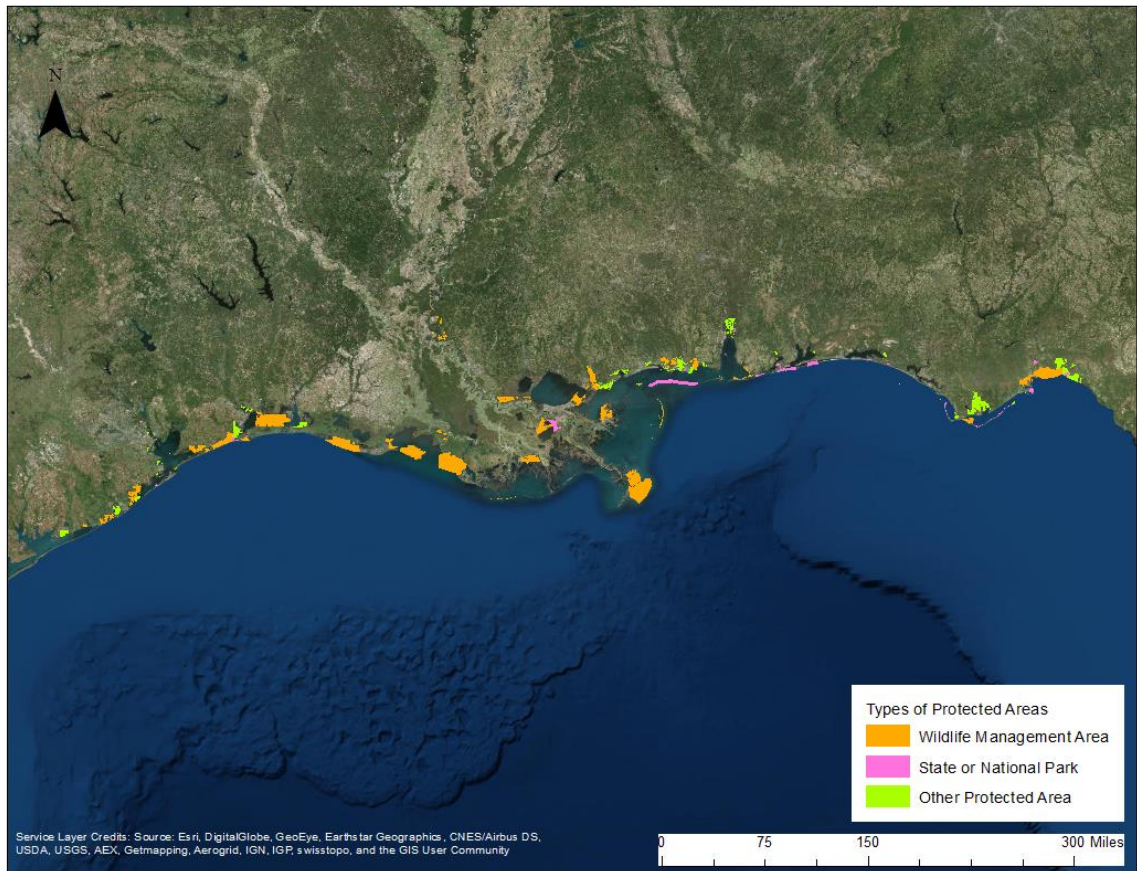


Figure 7. Protected areas in the northern Gulf of Mexico (NOAA ORR, 2007; NOAA ORR, 2010; NOAA ORR, 2012; NOAA ORR, 2013; NOAA ORR, 2014).

The National Land Cover Database was used to estimate the magnitude of human presence and disturbance across the northern Gulf of Mexico (Figure 8). The National Land Cover Database is a grid dataset with 30 meter resolution that covers the continental United States. It places each grid cell into one of 16 categories (Table 3) based on the predominant land use (USGS, 2011). The land use categories that indicate high, medium or low development were used as a surrogate for human disturbance, and any undeveloped categories were assumed to have a negligible level of human disturbance.

Table 3. National Land Cover Database categories and definitions (USGS, 2011).

Land Use Type	Description
Hay/Pasture	Areas of grasses, legumes, or grass-legume mixtures planted for livestock grazing or the production of seed or hay crops, typically on a perennial cycle. Pasture/hay vegetation accounts for greater than 20 percent of total vegetation.
Cultivated Crops	Areas used for the production of annual crops, such as corn, soybeans, vegetables, tobacco, and cotton, and also perennial woody crops such as orchards and vineyards. Crop vegetation accounts for greater than 20 percent of total vegetation. This class also includes all land being actively tilled.
Deciduous Forest	Areas dominated by trees generally greater than 5 meters tall, and greater than 20 percent of total vegetation cover. More than 75 percent of the tree species shed foliage simultaneously in response to seasonal change.
Developed, Open Space	Includes areas with a mixture of some constructed materials, but mostly vegetation in the form of lawn grasses. Impervious surfaces account for less than 20 percent of total cover. These areas most commonly include large-lot single-family housing units, parks, golf courses, and vegetation planted in developed settings for recreation, erosion control, or aesthetic purposes.
Barren Land	Barren areas of bedrock, desert pavement, scarps, talus, slides, volcanic material, glacial debris, sand dunes, strip mines, gravel pits and other accumulations of earthen material. Generally, vegetation accounts for less than 15 percent of total cover.
Developed, Low Intensity	Includes areas with a mixture of constructed materials and vegetation. Impervious surfaces account for 20-49 percent of total cover. These areas most commonly include single-family housing units.
Woody Wetlands	Areas where forest or shrub land vegetation accounts for greater than 20 percent of vegetative cover and the soil or substrate is periodically saturated with or covered with water.
Developed, Medium Intensity	Includes areas with a mixture of constructed materials and vegetation. Impervious surfaces account for 50-79 percent of the total cover. These areas most commonly include single-family housing units.
Open Water	All areas of open water, generally with less than 25 percent cover or vegetation or soil.
Herbaceous	Areas dominated by grammanoid or herbaceous vegetation, generally greater than 80 percent of total vegetation. These areas are not subject to intensive management such as tilling, but can be utilized for grazing.

Land Use Type	Description
Shrub/Scrub	Areas dominated by shrubs; less than 5 meters tall with shrub canopy typically greater than 20 percent of total vegetation. This class includes true shrubs, young trees in an early successional stage or trees stunted from environmental conditions.
Developed, High Intensity	Includes highly developed areas where people reside or work in high numbers. Examples include apartment complexes, row houses and commercial/industrial. Impervious surfaces account for 80 to 100 percent of the total cover.
Emergent Herbaceous Wetlands	Areas where perennial herbaceous vegetation accounts for greater than 80 percent of vegetative cover and the soil or substrate is periodically saturated with or covered with water.
Evergreen Forest	Areas dominated by trees generally greater than 5 meters tall, and greater than 20 percent of total vegetation cover. More than 75 percent of the tree species maintain their leaves all year. Canopy is never without green foliage.
Mixed Forest	Areas dominated by trees generally greater than 5 meters tall, and greater than 20 percent of total vegetation cover. Neither deciduous nor evergreen species are greater than 75 percent of total tree cover.



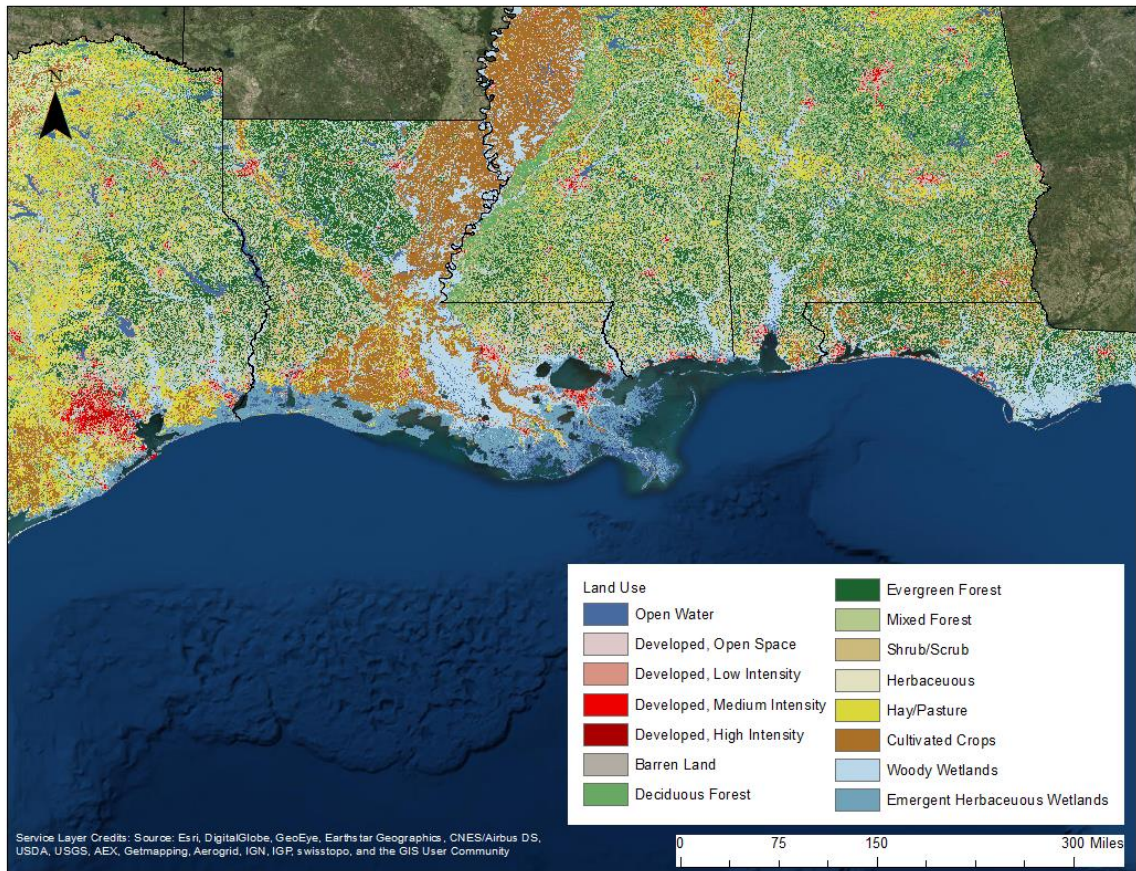


Figure 8. Land cover in the northern Gulf of Mexico (USGS, 2011).

Data on coastal erosion in the northern Gulf of Mexico was obtained from the USGS as well as other literature sources. The USGS Coastal and Marine Geology Program studies historical shoreline changes in the coastal United States in order to develop consistent records on shoreline erosion and accretion (USGS, 2015b). Rates of shoreline erosion or accretion in meters per year are provided for shoreline segments with sufficient data over both the long-term (1800s to the present) and short-term (1970s to the early 2000s) (Morton and Miller, 2004a-e). Since this research focuses on the impacts of present-day erosion rates, the short-term data were used (Figure 9).

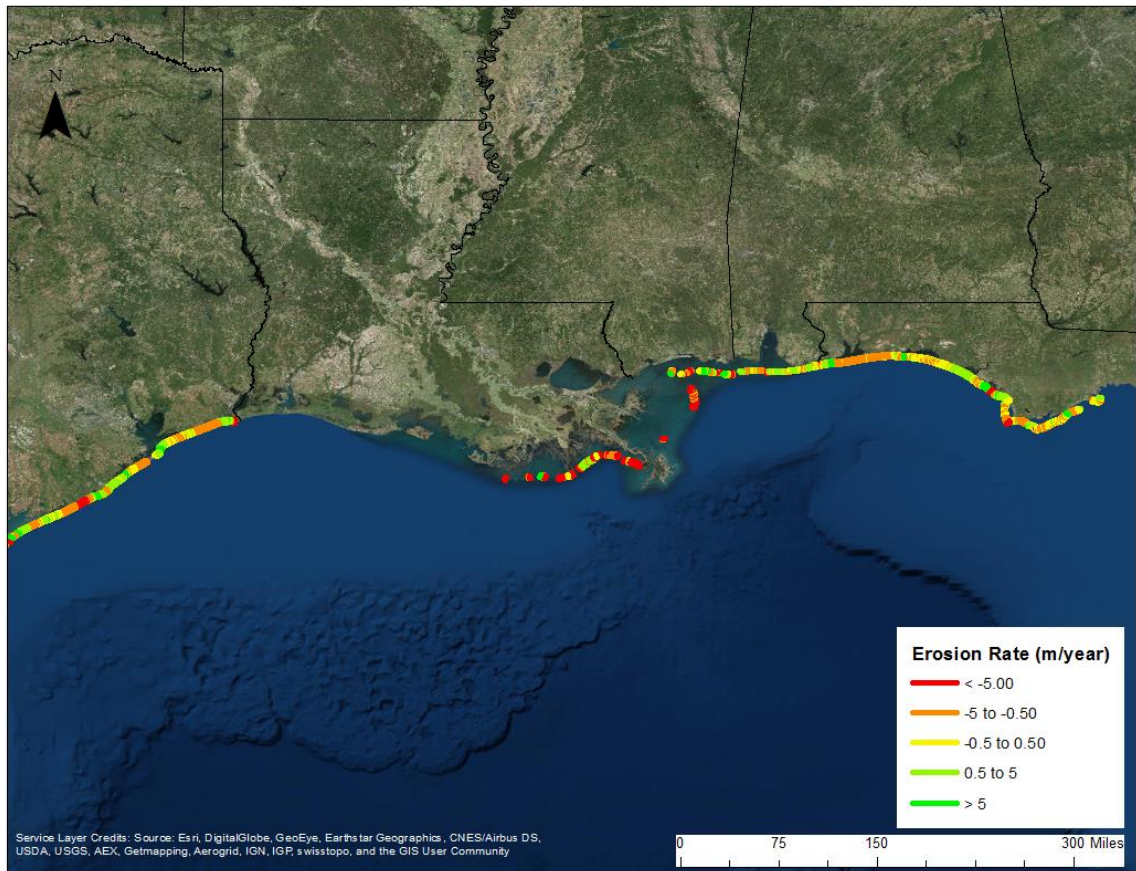


Figure 9. Coastal erosion rates in the northern Gulf of Mexico (Morton and Miller, 2004a-e).

In Texas, however, several breeding colonies occur within Galveston Bay. These colonies are likely to experience shoreline erosion rates that are different than those for open-water-facing shorelines. As such, more applicable information on erosion rates was collected from the literature for this area (NOAA, 1989).

The final dataset analyzed to identify suitable sites for brown pelican restoration was the distribution of brown pelican predators. Primary predators of brown pelicans are gulls, including yellow-footed, laughing, herring and kelp gulls, which consume brown pelican eggs (Shields, 2014). Other nest predators include bald eagles, raccoons, feral cats and feral dogs (Shields, 2014). However, it is rare for adult brown pelicans to be



preyed upon (Shields, 2014). Because gull species are the primary brown pelican nest predators, data on their distribution in the northern Gulf of Mexico were used for this analysis. Data on the presence and distribution of gull species in the northern Gulf of Mexico were also taken from the NOAA ESI data (Figure 10).

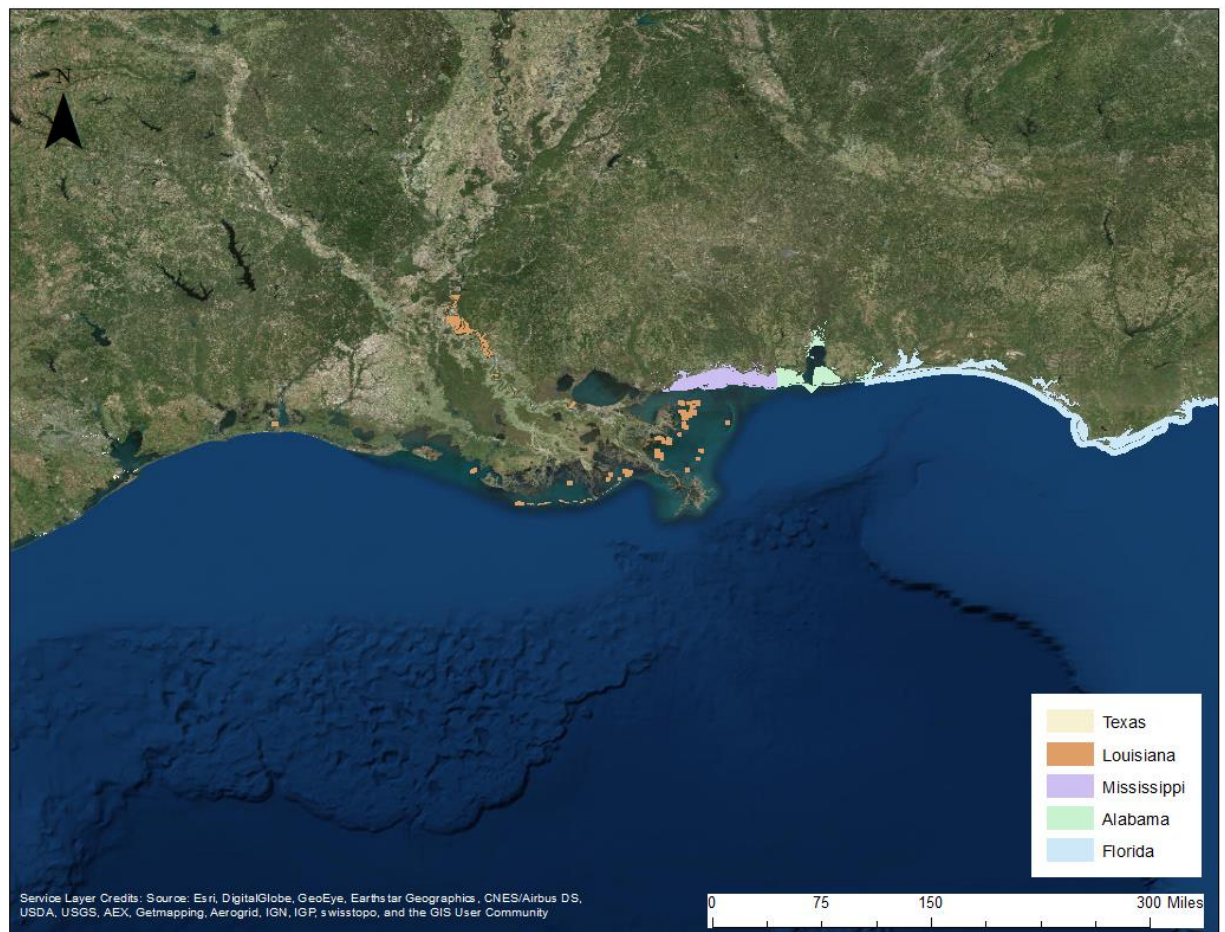


Figure 10. NOAA ESI data for gull species in the northern Gulf of Mexico (NOAA ORR, 2007; NOAA ORR, 2010; NOAA ORR, 2012; NOAA ORR, 2013; NOAA ORR, 2014).

## Identifying and Prioritizing Areas for Restoration

Once step 3 was completed, step 4 was to use the information to identify areas where each restoration technique could be applied, and step 5 was to prioritize them. The first restoration technique, land acquisition, is the type of action that would be contemplated following a traditional gap analysis. Therefore, the process for identifying areas for acquisition is very similar to what is described in *Ecoregional Gap Analysis of the Southwestern United States*, a gap analysis conducted by USGS GAP in coordination with the United States Environmental Protection Agency (EPA), the Colorado Division of Wildlife, NatureServe, and Utah State University (Prior-Magee et al., 2007). Similar to that approach, this analysis was completed using ESRI® ArcGIS Desktop 10 software.

Within each state, the proportion of brown pelican habitat that occurs within a protected area was calculated. In addition, the number of nesting colonies that occur in protected areas was also calculated. States with a low proportion of protected habitat, or a low number of protected nesting colonies, were prioritized for land acquisition projects. However, unlike traditional gap analysis, the goal of restoration planning is not purely to conserve the species, but rather to recover losses that were suffered as a result of an incident (NOAA, 2016). As such, in identifying and prioritizing parcels for restoration planning, the goal is not simply to protect well positioned parcels, but rather to protect parcels that would otherwise be lost. Thus, it could be argued that their preservation would prevent future losses and therefore offset the losses that were suffered as a result of a spill. As such, areas were prioritized based on their proximity to highly developed areas (indicating they were at risk of development).

Since breeding enhancement projects can only be implemented in active nesting colonies by definition, only those sites were analyzed in the modified gap analysis. The goal of breeding habitat enhancement projects is to remove impediments to brown pelican breeding success, thereby increasing reproductive output and offsetting losses suffered as a result of a spill. All active brown pelican nesting colonies, as well as the former nesting colony sites at Cat Island and Wine Island, were considered as potential restoration sites for the purposes of this analysis. Colonies were prioritized for restoration based on the number and severity of potential threats they faced. Once the identification and prioritization of opportunities for land acquisition and breeding habitat enhancement projects were identified and prioritized, the hypotheses proposed in this thesis were addressed.

## Chapter III

### Results

Two modified ecological gap analyses were carried out to identify opportunities for brown pelican restoration in the northern Gulf of Mexico. The first identified areas for potential land acquisition, and the second identified brown pelican breeding colonies where breeding habitat enhancement projects could be implemented.

#### Identifying Areas for Land Acquisition

Areas for potential land acquisition are those identified either by the USGS GAP or the NOAA ESI data as suitable habitat for brown pelicans across the entire northern Gulf of Mexico, but that are not currently part of a protected area (Figure 11). As such, these areas represent the full realm of potential land acquisition opportunities. Table 4 summarizes total brown pelican habitat, the area of habitat covered by protected areas, and the percent of remaining habitat that is already developed in these areas for each northern Gulf state.

These results suggest that Texas and Alabama should be prioritized for land acquisition projects. These two states have the highest percentage of unprotected brown pelican habitat; less than ten percent of habitat in both states is currently part of an existing protected area. They also have the highest amount of development in potential acquisition areas. This indicates that there is a higher development pressure in these areas and that protection of brown pelican habitat in these areas has the potential to prevent

future development and the negative impacts to brown pelican populations that would come from increased human interaction and disturbance.

In contrast, Louisiana and Mississippi both already have approximately 20 percent of available brown pelican habitat covered by an existing protected area. Moreover, in Louisiana, only six percent of unprotected habitat is currently developed. This suggests there is low development pressure in these areas and additional protection is unlikely to provide a significant reduction in human interaction or disturbance (i.e., a minimal benefit to the brown pelican population). Florida has a moderate amount of protected habitat (13 percent) and a moderate amount of development pressure.

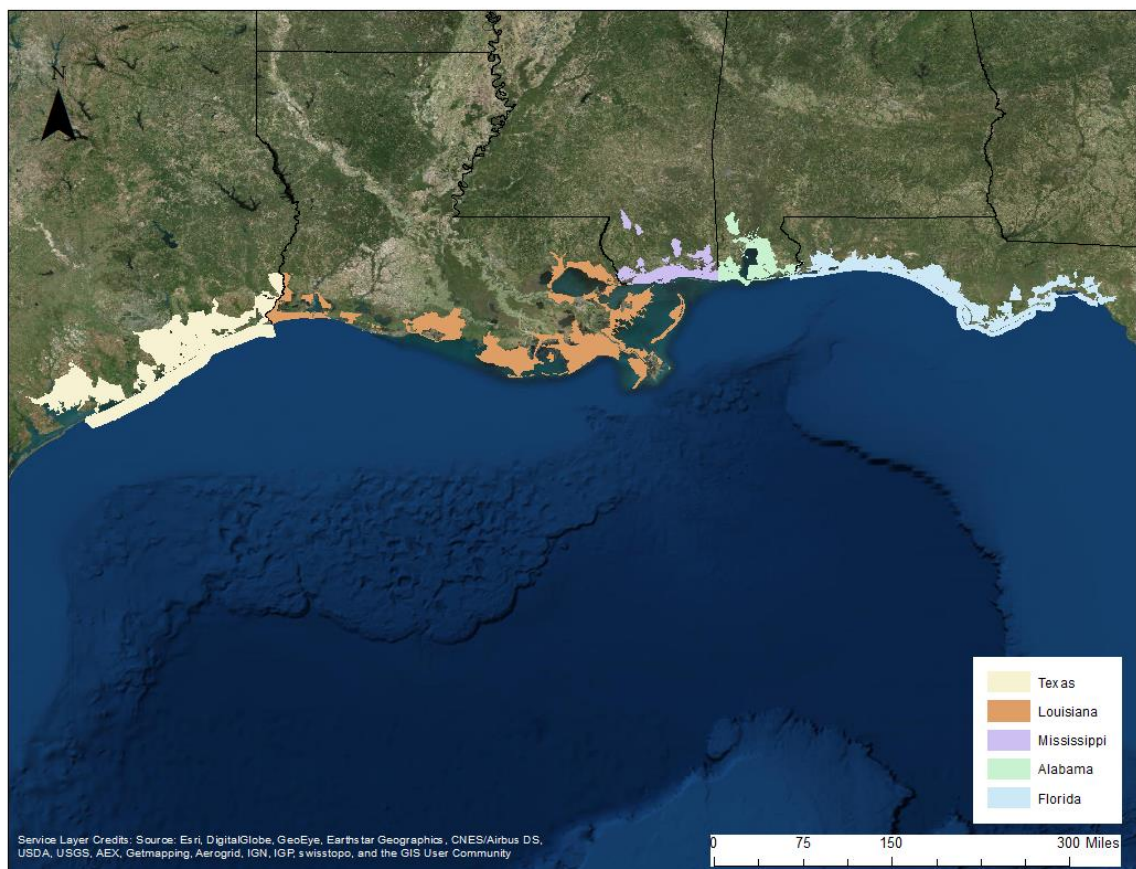


Figure 11. Areas for potential land acquisition across the entire northern Gulf of Mexico.

Table 4. Summary of land acquisition opportunities by state for the entire northern Gulf of Mexico.

<b>State</b>	<b>Total Brown Pelican Habitat (acres)</b>	<b>Area of Habitat Covered by Protected Areas (acres)</b>	<b>Percent of Habitat Not Covered by a Protected Area</b>	<b>Percent of Unprotected Habitat That is Developed</b>
Texas	3,920,501	235,868	94.0%	17.8%
Louisiana	4,011,220	879,627	78.1%	5.7%
Mississippi	912,905	183,855	79.9%	15.5%
Alabama	748,450	62,641	91.6%	15.8%
Florida	2,539,101	334,832	86.8%	14.8%

However, as reported in Birds of North America, brown pelicans typically remain within 75 kilometers of a breeding colony. As such, potential land acquisition opportunities within this smaller area were also identified and evaluated (Figure 12). Similarly, Table 5 summarizes total brown pelican habitat, the area of habitat covered by protected areas, and the percent of remaining habitat that is already developed within 75 kilometers of a breeding colony for each northern Gulf state.



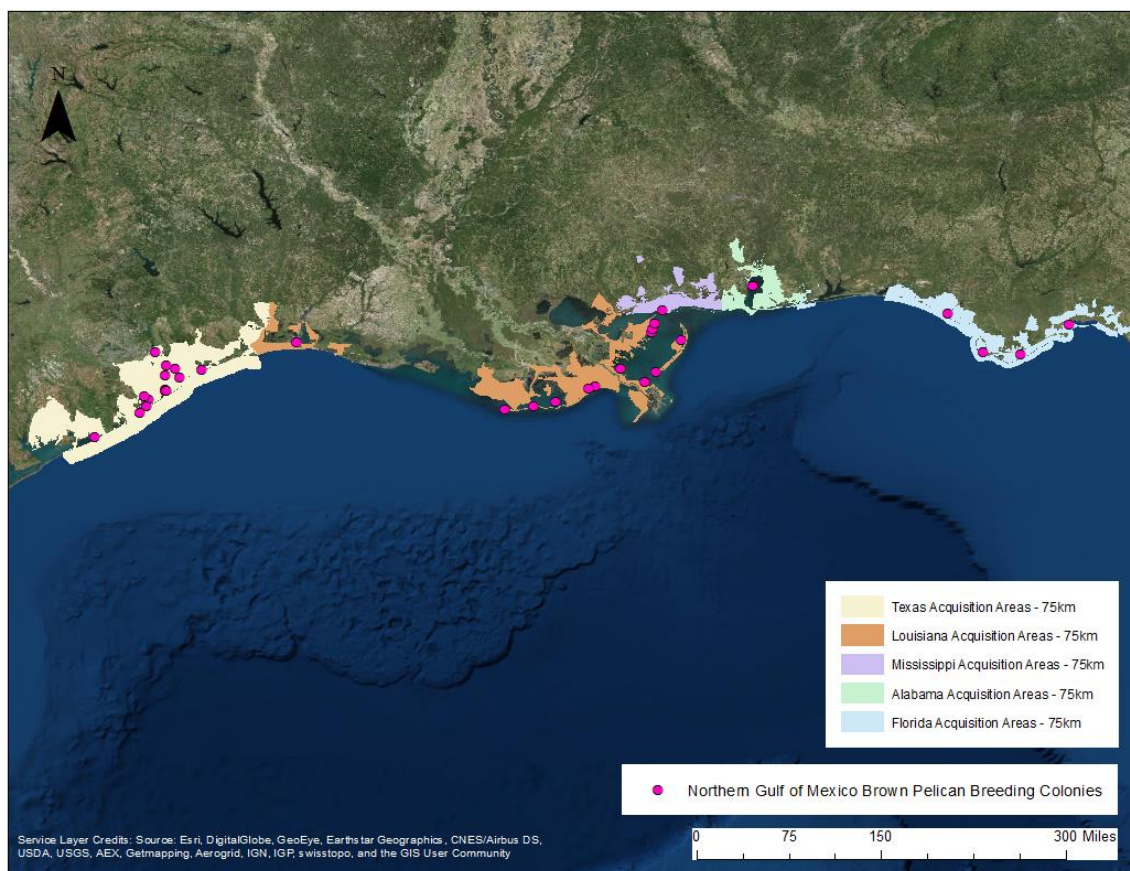


Figure 12. Areas for potential land acquisition within 75 kilometers of a brown pelican breeding colony.

Table 5. Summary of land acquisition opportunities by state within 75 kilometers of a brown pelican breeding colony.

State	Total Brown Pelican Habitat (acres)	Area of Habitat Covered by Protected Areas (acres)	Percent of Habitat Not Covered by a Protected Area	Percent of Unprotected Habitat That is Developed
Texas	3,831,324	235,868	93.8%	18.2%
Louisiana	3,137,834	703,347	77.6%	3.8%
Mississippi	859,463	183,855	78.6%	17.6%
Alabama	748,450	62,641	91.6%	15.7%
Florida	2,103,819	307,357	85.4%	10.4%

The results from this narrowed analysis reinforce the original results. For example, in Texas and Alabama the percent of habitat not covered by a protected area remains very similar between the two analyses. Moreover, in Texas, within 75 kilometers of a breeding colony, the percent of unprotected habitat that is developed increases by almost a half a percent while the amount in Alabama remains constant. This indicates that development pressure and human disturbance in Texas and Alabama is particularly focused around breeding colonies. In contrast, in Florida and Louisiana, the percentage of habitat covered by an existing protected area increases by narrowing the analysis and the percentage of unprotected habitat that is developed decreases. This indicates that the development pressure in those states is not occurring in the most frequently used habitat areas, and therefore acquisition in those states would be a lower priority.

Figures 14 through 18 provide a closer view of the land acquisition opportunities in each Gulf state and show the distribution of current land uses in those areas. These figures also identify which brown pelican breeding colonies are encompassed by existing protected areas and those that are unprotected (a full list of the colonies and their protection status is available in Table 6 below). A map of average agricultural land prices by county (2012 dollars per acre) from the U.S. Department of Agriculture's (USDA's) National Statistics Service is also provided as a proxy for the cost of undeveloped land in the northern Gulf of Mexico for additional context (Figure 13, USDA, 2012).



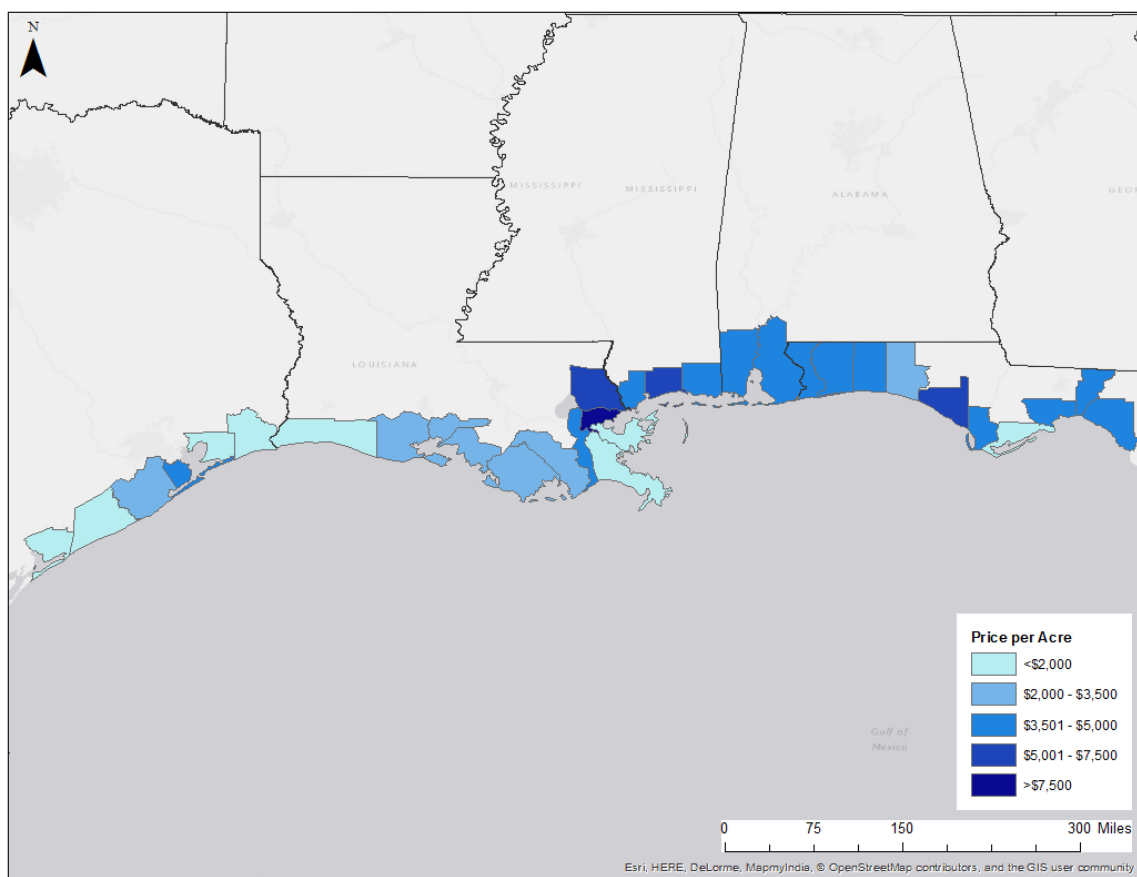


Figure 13. Average agricultural land price data for coastal counties in the northern Gulf of Mexico (USDA, 2012).

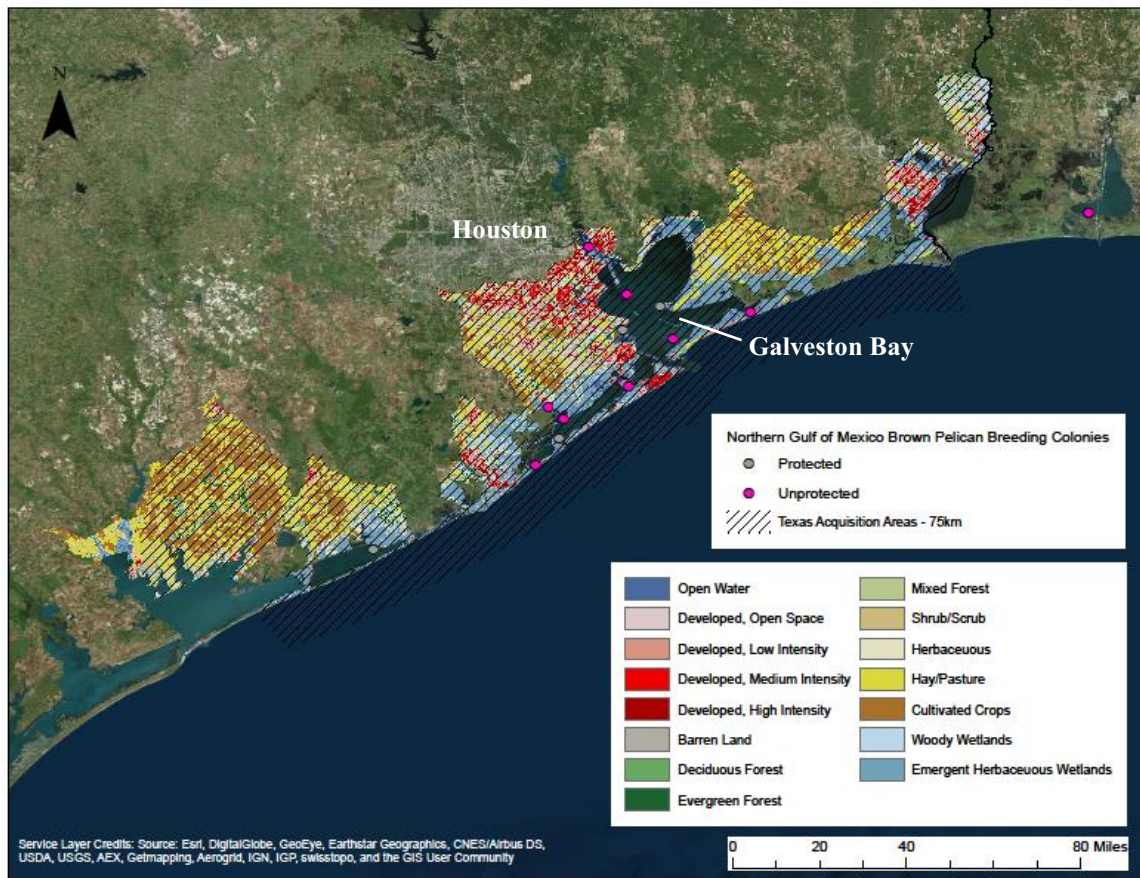


Figure 14. Areas for potential land acquisition in Texas (areas within 75 kilometers of a brown pelican breeding colony are shaded with black stripes).

Texas is a state prioritized for land acquisition projects. The majority of brown pelican breeding colonies in this state are concentrated within the larger Galveston Bay area (Figure 14). While some colonies in this area are currently protected, more than half are not protected. In addition, there is development pressure from Galveston and Texas City near the mouth of Galveston Bay and from Houston, which is centered approximately 25 miles northwest of Galveston Bay. Houston is the second largest port in the United States by tonnage, second only to the port in south Louisiana, generating a lot of activity in Galveston Bay (USACE, 2014). Despite this development, there remain

plenty of low-cost, undeveloped opportunities for land acquisition, particularly on the eastern side of Galveston Bay.

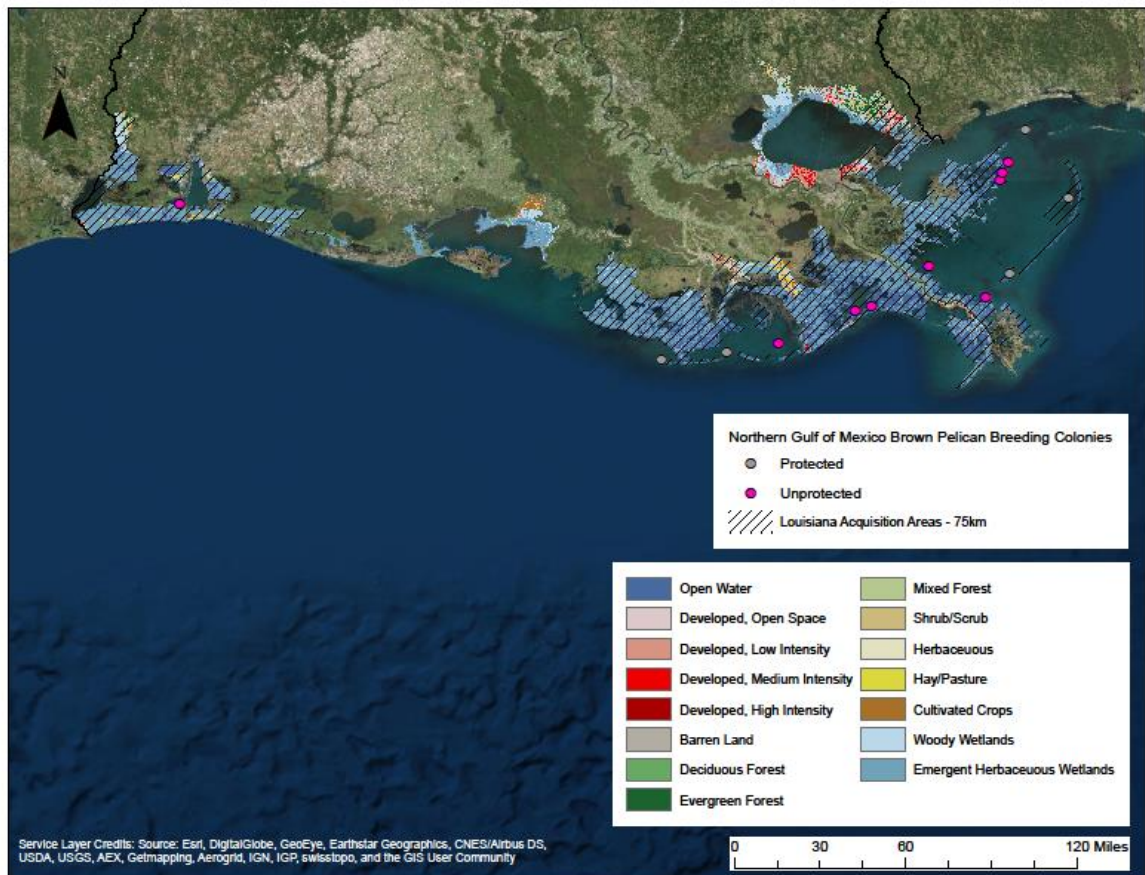


Figure 15. Areas for potential land acquisition in Louisiana (areas within 75 kilometers of a brown pelican breeding colony are shaded with black stripes).

Louisiana is a low priority area for land acquisition projects. While the largest United States port by tonnage is located in south Louisiana, there is little development pressure in the immediate vicinity of brown pelican breeding colonies (USACE, 2014). Similarly, while fewer than half of existing brown pelican colonies are part of an existing protected area, there is little to indicate that these colonies are under imminent threat of development and therefore are a low priority for acquisition. However, one benefit of



land acquisition in Louisiana is the low land prices in the areas with brown pelican breeding colonies.

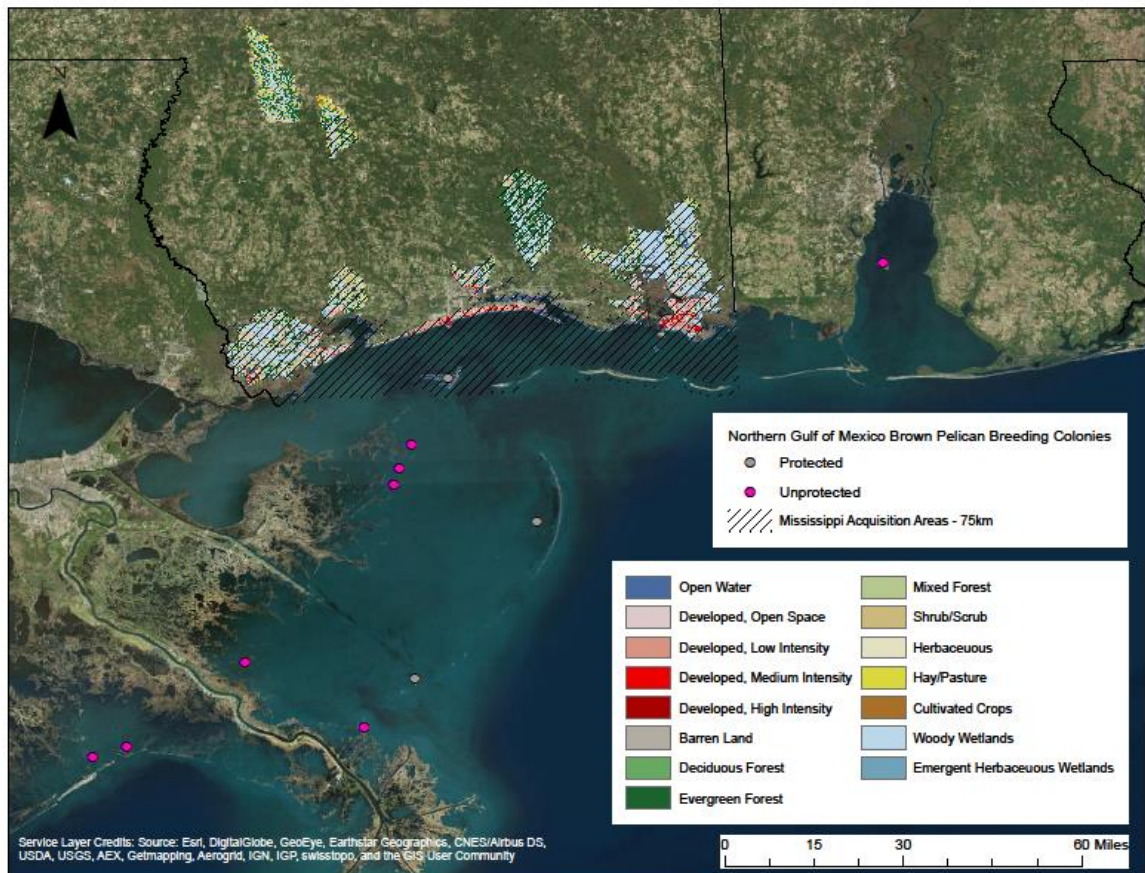


Figure 16. Areas for potential land acquisition in Mississippi (areas within 75 kilometers of a brown pelican breeding colony are shaded with black stripes).

Mississippi is another state that is not prioritized for land acquisition projects. Its sole brown pelican breeding colony is no longer active (Cat Island), but is already part of an existing protected area. This colony, if it were to become active again, would also be partially buffered against human disturbance due to its offshore location.

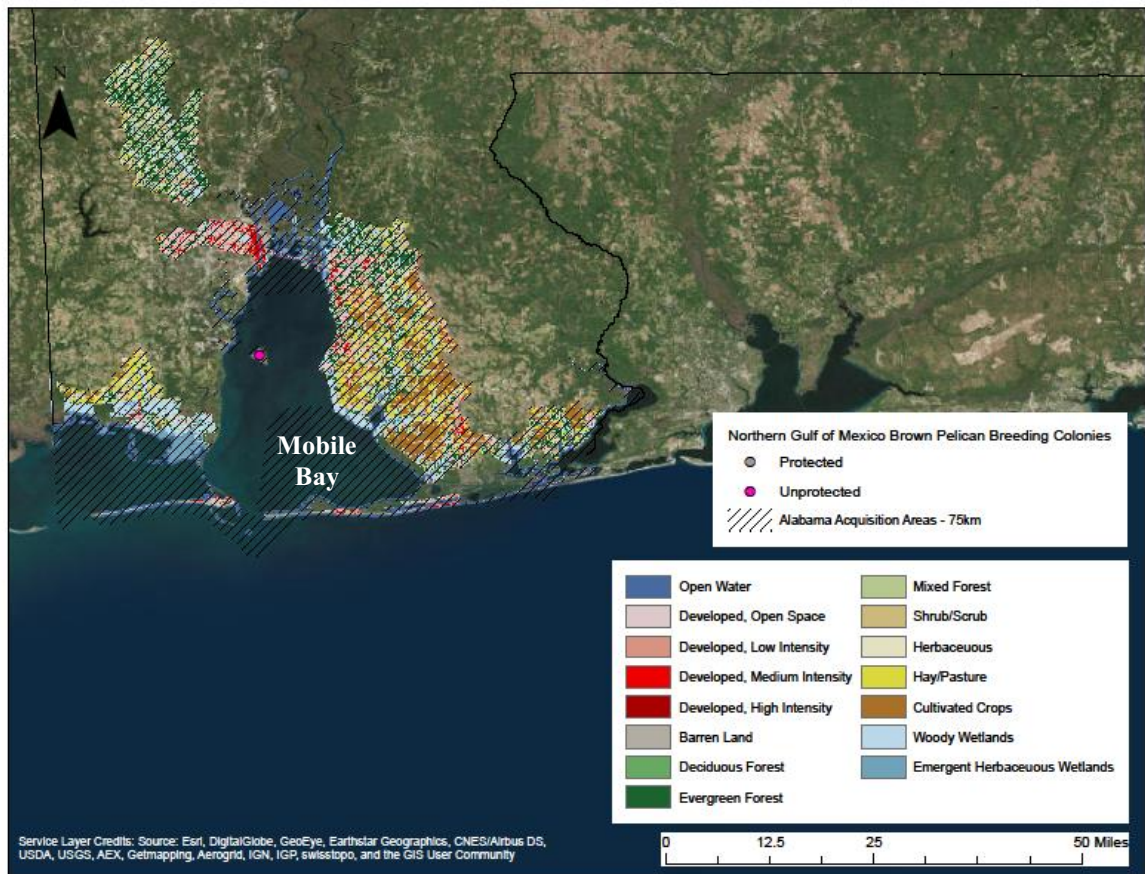


Figure 17. Areas for potential land acquisition in Alabama (areas within 75 kilometers of a brown pelican breeding colony are shaded with black stripes).

Alabama is an area that is prioritized for land acquisition projects. Its sole breeding colony is not currently part of a protected area, and there is a fair amount of development at the north end of Mobile Bay in the city of Mobile, Alabama on the western side and in Spanish Fort and Daphne, Alabama on the eastern side. However, a number of moderately priced areas are still available for potential acquisition.

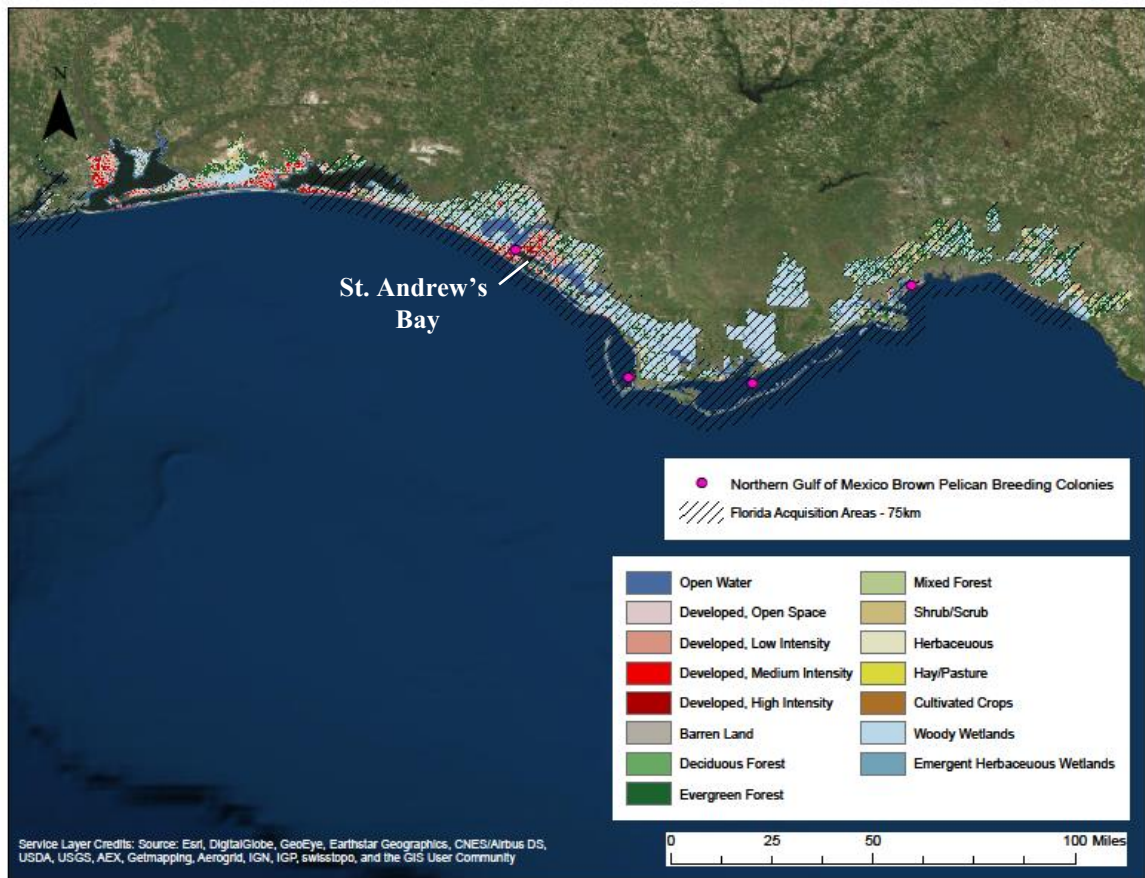


Figure 18. Areas for potential land acquisition in Florida (areas within 75 kilometers of a brown pelican breeding colony are shaded with black stripes).

Finally, Florida is not prioritized for land acquisition projects. While none of its breeding colonies are currently part of an existing protected area, most of them are adjacent to protected areas. In addition, the breeding colonies in the southeastern end of the panhandle are under very low development pressure. There would likely be a benefit to acquiring lands in the St. Andrew's Bay area, including protecting the Audubon Island breeding colony that is there. However, land prices in this area are some of the most expensive in the northern Gulf of Mexico.

## Identifying Areas for Breeding Habitat Enhancement

To identify areas for breeding habitat enhancement projects, data were collected on several factors that were likely to impact the reproductive success of brown pelican colonies. These were: the number of breeding pairs present on the island, predation risk, development pressure within 20 kilometers based on the National Land Cover Database, and relative erosion risk based on short term historical rates (1970s to the early 2000s) or information published in the literature. Data on each of these factors are presented for each brown pelican breeding colony in Table 6.

These results suggest that Louisiana breeding colonies would be a top priority for breeding habitat enhancement projects. Louisiana is the only state where colonies are experiencing high erosion rates (i.e., losses greater than ten meters per year). Most of these colonies are also subject to predation from co-occurring gull species. Furthermore, brown pelican colonies in Louisiana are some of the most productive across the northern Gulf of Mexico. As such, enhancement of these colonies is likely to lead to large gains for the overall northern Gulf of Mexico brown pelican population. Cat Island in Mississippi would also be a strong candidate for a breeding enhancement project. It was the only breeding colony in Mississippi and was completely lost due to erosion (Dermansky, 2015). Restoration of this island would restore a breeding colony in an existing protected area thereby leveraging resources that have already been expended.



Table 6. Number of breeding pairs, predator risk, protected status, development pressure and relative erosion risk at brown pelican breeding colonies in the northern Gulf of Mexico.

<b>Brown Pelican Breeding Colony</b>	<b>State</b>	<b>Number of Breeding Pairs<sup>a</sup></b>	<b>Gull Species Present<sup>b</sup></b>	<b>Is Colony Part of a Protected Area (Yes/No)?</b>	<b>Percent of Land Developed within 20 kilometers<sup>c</sup></b>	<b>Erosion Rate (m/yr) &amp; Relative Risk (low, mid, or high)<sup>d</sup></b>
Unnamed Island 1 *	Texas	1925	No	Unprotected	26.51%	-1.04 (mid)
Unnamed Island 3 *	Texas	1100	No	Unprotected	25.46%	-0.99 (low)
North Deer Island *	Texas	7186	No	Protected	26.66%	-1.04 (mid)
Smith Point <sup>e</sup>	Texas	181	No	Protected	16.00%	-1.28 (mid)
Shell Island	Texas	17	No	Protected	41.88%	-1.28 (mid)
Goat Island	Texas	149	No	Unprotected	53.77%	-1.28 (mid)
Unnamed Island 2	Texas	357	No	Unprotected	44.25%	-1.28 (mid)
Rollover Bay Island <sup>e</sup>	Texas	24	No	Unprotected	5.05%	-0.99 (low)
South Deer Island	Texas	32	Yes	Unprotected	26.88%	-1.04 (mid)
Alligator Point	Texas	315	No	Unprotected	4.16%	-0.73 (low)
Grassy Point	Texas	10	No	Unprotected	6.07%	-0.73 (low)
Drum Bay	Texas	89	No	Unprotected	12.05%	-1.04 (mid)
Rattlesnake Point	Texas	60	No	Protected	3.16%	-1.04 (mid)
Dressing Point <sup>e</sup>	Texas	264	No	Protected	3.32%	-1.04 (mid)
Queen Bess Island *	Louisiana	4000	Yes	Unprotected	1.10%	-11.35 (high)
Raccoon Island *	Louisiana	6800	Yes	Protected	0.00%	-21.05 (high)
North Island *	Louisiana	1038	Yes	Protected	0.00%	-8.40 (mid)
North Breton Island* <sup>e</sup>	Louisiana	5000	Yes	Protected	0.00%	-7.07 (mid)
Martin	Louisiana	0	Yes	Unprotected	0.00%	N/D (protected)
Brush	Louisiana	0	Yes	Unprotected	0.00%	N/D (protected)
Wypt 19	Louisiana	240	Yes	Unprotected	0.00%	N/D (protected)
Pelican Point Cluster	Louisiana	300	Yes	Unprotected	2.20%	N/D (protected)



<b>Brown Pelican Breeding Colony</b>	<b>State</b>	<b>Number of Breeding Pairs<sup>a</sup></b>	<b>Gull Species Present<sup>b</sup></b>	<b>Is Colony Part of a Protected Area (Yes/No)?</b>	<b>Percent of Land Developed within 20 kilometers<sup>c</sup></b>	<b>Erosion Rate (m/yr) &amp; Relative Risk (low, mid, or high)<sup>d</sup></b>
Shallow Bayou	Louisiana	800	No	Unprotected	1.55%	-78.58 (high)
Baptise Collette	Louisiana	0	Yes	Unprotected	2.40%	-13.52 (high)
East Queen Bess Cluster	Louisiana	2050	Yes	Unprotected	0.94%	-12.12 (high)
Rabbit Island	Louisiana	1100	Yes	Unprotected	2.69%	N/D (protected)
Wine Island	Louisiana	0	No	Protected	0.00%	-22.99 (high)
Cat Island	Mississippi	0	No	Protected	45.07%	-2.99 (mid)
Gaillard Island*	Alabama	4500	Yes	Unprotected	29.10%	N/D (protected)
Audubon Island*	Florida	100	Yes	Unprotected	24.75%	0.52 (low)
Smith Island	Florida	Unknown	No	Unprotected	5.76%	2.42 (low)
Black's Island	Florida	Unknown	No	Unprotected	6.38%	-0.31 (low)
Bird Island	Florida	768	Yes	Unprotected	7.31%	1.12 (low)

<sup>a</sup> Values for Florida and Alabama colonies were taken from the NOAA ESI data, values for Louisiana colonies were taken from Selman et al. 2016 (number of breeding pairs was approximated using number of nests), and values for Texas colonies were taken from E. Johnson, personal comm., January 19, 2017.

<sup>b</sup> Gull presence and protected status were determined using NOAA ESI data.

<sup>c</sup> Percent of land developed within 20 kilometers of breeding colonies was calculated using the National Land Cover Database.

<sup>d</sup> Erosion rates > -1 meter per year were considered low, rates between -1 and -10 were considered medium (mid), and rates < -10 meters were considered high. Most values were obtained from the USGS short term historical data, but values for Texas colonies were obtained from NOAA (1989), which provided more specific rates for within Galveston Bay. Colonies classified as “N/D (protected)” are those that are located landward of barrier islands or that occur within a bay. Unlike Texas, more specific erosion rates were not available for these areas, but they were treated as low risk areas since they are protected from the more severe wave action experienced by barrier islands and other exposed coastal areas.

<sup>e</sup> Colonies selected for Early Restoration breeding enhancement projects.

Alabama and Florida would be mid-level priority locations for breeding enhancement projects. While Gaillard Island in Alabama is not currently threatened by erosion, there are gull species present and this productive island may benefit from a predator control project. The same is true of Audubon Island and Bird Island in Florida. In contrast, Texas would be a low priority for breeding enhancement projects. Most of its colonies are experiencing low erosion rates, and only one colony has gull species present.

Unlike land acquisition projects, a number of breeding habitat enhancement projects were completed as part of the *Deepwater Horizon* Early Restoration process (Figure 19 and Table 7). This allows us to compare the priorities identified using the modified ecological gap analysis to the project locations selected using a traditional restoration planning approach. There are a few major distinctions between the project locations selected as part of Early Restoration and the priorities identified using this analysis.

First, several Early Restoration breeding habitat enhancement projects occurred in Texas – an area identified as a low priority by this analysis. Second, while several breeding habitat enhancement projects did occur in Louisiana, many of them did not occur on the most productive or the most threatened breeding colonies, with the exception of North Breton Island. In fact, three projects occurred in areas not identified as breeding colonies. There are a few potential reasons for this. First, the colony data presented in Selman et al. (2016) only tracks breeding colonies from 1992 through 2010, and would not capture recently formed colonies. Second, it may be the case that brown pelican nesting on these islands does occur, but it is not significant enough to be considered a colony. Finally, it may be the case that these islands do not currently support any brown

pelican nesting, but the Trustees believe that once these projects are complete the islands would become suitable nesting sites that would be colonized. In either case, these differences highlight the potential value of applying a modified ecological gap analysis approach to restoration planning.

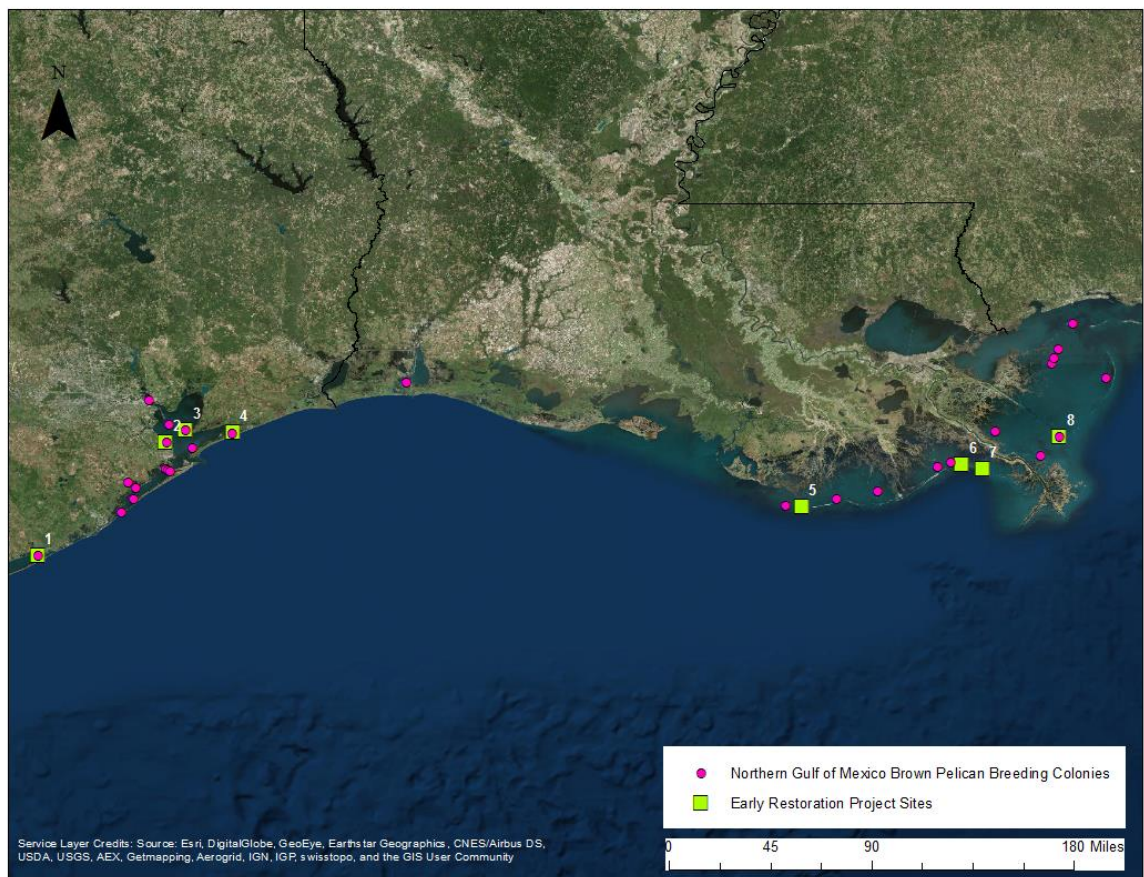


Figure 19. Locations of brown pelican breeding habitat enhancement projects approved for implementation under Early Restoration (DOI, 2014; DOI, 2015).

Table 7. Breeding habitat enhancement projects approved for implementation or implemented under Early Restoration (DOI, 2014; DOI, 2015).

<b>ID #</b>	<b>Breeding Habitat Enhancement Project Name</b>	<b>State</b>	<b>Project Type</b>
1	Dressing Point	Texas	Habitat restoration and enhancement
2	Dickinson Bay Island II	Texas	Habitat restoration and enhancement
3	Smith Point	Texas	Habitat restoration and enhancement
4	Rollover Bay Island	Texas	Habitat restoration and enhancement
5	Caillou Lake Headlands (Whiskey Island)	Louisiana	Habitat restoration and enhancement
6	Chenier Ronquille	Louisiana	Habitat restoration and enhancement
7	Shell Island	Louisiana	Habitat restoration and enhancement
8	North Breton Island	Louisiana	Habitat restoration and enhancement

## Chapter IV

### Discussion

While natural resource trustees are not required to undertake a comprehensive review of all potential restoration options, the current minimal requirement of examining a reasonable range of alternative projects proposed by the public, other agencies, or non-profit organizations generates a number of deficiencies in the current restoration planning process. Specifically, it can lead to a bias in available project submissions and lacks transparency to the public. The modified ecological gap analysis approach proposed and examined in this thesis was shown to be a successful tool to identify areas for the application of land acquisition projects and breeding enhancement projects to restore brown pelicans in the northern Gulf of Mexico. Furthermore, this approach remedies the two primary criticisms of the traditional restoration planning process by outlining the specific decision rules that are used to identify and prioritize areas chosen for a particular restoration technique, and by providing context to natural resource trustees when evaluating restoration project proposals.

Applying a modified ecological gap analysis approach to identify areas for land acquisition projects was particularly successful given how similar this objective was to the goals of traditional ecological gap analysis. However, no land acquisition projects have yet been implemented by the *Deepwater Horizon* natural resource trustees so there was no baseline condition to compare these results to. Therefore, while it was demonstrated that the modified gap analysis was a successful and objective means of identifying areas for land acquisition projects, it could not be concluded that this

approach would result in recommendations that differed from projects selected using the traditional restoration planning approach.

In contrast, the *Deepwater Horizon* natural resource trustees have already selected eight breeding habitat enhancement projects as part of Early Restoration to restore brown pelicans in the northern Gulf of Mexico. To address this goal, the modified ecological gap analysis was also able to successfully identify priority areas for breeding habitat enhancement projects.

In this case, the areas identified using the ecological gap analysis were substantially different than those selected during Early Restoration, as predicted. Primarily, most of the Early Restoration projects were implemented in Texas, an area identified as a low priority by the gap analysis. In addition, most of the projects did not occur on the most productive or the most threatened breeding colonies, and three projects (out of eight) occurred in areas that the gap analysis did not identify as brown pelican colonies. The modified ecological gap analysis highlighted that, so far, the *Deepwater Horizon* natural resource trustees have perhaps not focused on the highest priority areas for breeding habitat enhancement projects.

Incorporating modified ecological gap analysis into traditional restoration planning can also allow natural resource trustees to compare multiple restoration techniques. After conducting a modified ecological gap analysis, it may become clear that one restoration technique is unlikely to be successful relative to other options. For example, if the land acquisition analysis had shown that most brown pelican habitat in the northern Gulf of Mexico was already part of a protected area, the Trustees could decide to prioritize breeding habitat enhancement projects as an alternative to land acquisition.

## Research Limitations

While a modified ecological gap analysis approach offers several advantages, it should not be seen as a replacement to the traditional restoration planning process, but rather a supplement to it. In addition, this analysis may not always be warranted or efficient in all situations. For example, the 2010 *Deepwater Horizon* oil spill was an extremely large incident, and the responsible party has agreed to pay billions of dollars for natural resource restoration. In this context an analysis like the one described in this thesis would be warranted to help identify and prioritize the large number of potential restoration projects, and would help provide a broad overview of the restoration setting. However, there are many other cases under CERCLA and OPA where the damages to natural resources are fairly small or the opportunities for restoration are limited. In those cases the time and effort associated with this analysis would likely not be warranted.

A fair amount of data is also required to carry out the analysis proposed in this thesis. The national-level datasets used were appropriate for the geographic scale of this analysis (i.e., the northern Gulf of Mexico). However, the resolution of some of these datasets (e.g., the National Land Cover Database or the USGS GAP species range data) may not be fine enough for an analysis at a smaller spatial scale. Furthermore, there may not be more detailed state or local information available to replace those data.

A second limitation of this analysis is that it only examined one species and two restoration techniques. As stated in the *Deepwater Horizon Final Programmatic Damage Assessment and Restoration Plan*, the Trustees' preferred restoration approach was "Comprehensive Integrated Ecosystem Restoration," which would allow them to develop

an integrated restoration portfolio that would maximize potential synergies among restoration projects (NOAA, 2016). The individual species focus of this analysis is unlikely to be how the *Deepwater Horizon* natural resource trustees would approach restoration. However, while this analysis focused on an individual species as a proof of concept, it is likely to be equally if not more effective at identifying opportunities for restoration that benefit multiple species.

Standard ecological gap analysis is designed to examine the overlap of multiple species and habitat types. Similarly, the modified ecological gap analysis presented here could easily incorporate data for multiple bird species to identify where habitat acquisition or enhancement projects may benefit the most species. It would also likely be possible to incorporate multiple restoration types. For example, the “wetlands, coastal, and nearshore habitats” restoration type could be incorporated with the “birds” restoration type and projects could be identified that benefited both.

A final limitation of these results is that this approach does not address all the criteria that natural resource trustees use to select restoration projects. Additional criteria outlined in federal regulations include, but are not limited to:

1. Whether or not an alternative is technically feasible;
2. Whether or not an alternative is in accordance with applicable laws, regulations, or permits;
3. The cost of the alternative;
4. The extent to which the alternative will prevent future injury or avoid collateral injury; and



5. The potential effect of the alternative on public health and safety (15 C.F.R §990).

In addition to the criteria specified in the regulations, natural resource trustees can develop additional criteria that they believe are appropriate. For example, while there is no requirement in the regulations to restore natural resources in the same location where they were injured, the trustees may choose to do so in a particular case and can impose geographic location as a criterion. It would be unlikely for a modified ecological gap analysis to address all potential project selection criteria. Therefore, as stated previously, this approach would not be a replacement for traditional restoration planning, but would merely be a supplement to it.

#### Areas for Future Research

As partially discussed above, there are several areas for future research. First, it would be beneficial to explore the extent to which a modified ecological gap analysis could be applied to other restoration techniques. A second area for future research would be investigating how to incorporate multiple species into an analysis or multiple restoration types. Finally, as restoration progresses for the *Deepwater Horizon* oil spill, it would be informative to continue comparing similarities and differences between traditional restoration planning and modified ecological gap analysis for additional restoration types and restoration techniques. This is the largest restoration effort undertaken to date, and when restoration is complete there will be a substantial amount of baseline data available for many restoration types and techniques.

## Conclusion

It has been successfully shown that modified ecological gap analysis can be used as a tool to improve the traditional process of restoration planning by increasing transparency and providing a comprehensive view of the restoration setting. Specifically, it was demonstrated that ecological gap analysis can successfully identify locations for land acquisition and breeding habitat enhancement projects for brown pelican restoration in the northern Gulf of Mexico. It was also demonstrated that the areas identified were different than those selected during traditional restoration planning, highlighting the important role that this type of analysis could play going forward. While there are still several potential areas for future research, the results presented here could already be used by the *Deepwater Horizon* natural resource trustees to inform future restoration efforts for brown pelicans.

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## Ancillary Appendix: Protected Areas in the Northern Gulf of Mexico

Listed below are all the protected areas included in the NOAA ESI data for the northern Gulf of Mexico (Table 8). Areas that were included in this analysis have “Yes” entered in the field “Included in Analysis.”

Table 8. Protected Areas in the northern Gulf of Mexico (NOAA ORR, 2007; NOAA ORR, 2010; NOAA ORR, 2012; NOAA ORR, 2013; NOAA ORR, 2014).

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Alabama	Bon Secour National Wildlife Refuge	Yes
Alabama	Grand Bay National Wildlife Refuge	Yes
Alabama	Grand Bay Savanna Addition Fw 24	Yes
Alabama	Grand Bay Savanna Fw 4	Yes
Alabama	Gulf State Park	Yes
Alabama	Historic Blakeley State Park	Yes
Alabama	Lillian Swamp Forever Wild S. Addition	Yes
Alabama	Meaher State Park	Yes
Alabama	Mobile-Tensaw Delta Wma	Yes
Alabama	Weeks Bay Add. Harris & Worchester Fw 33	Yes
Alabama	Weeks Bay Reserve	Yes
Alabama	Weeks Bay Tract Fw 23	Yes
Alabama	Wl Holland Wma	Yes
Alabama	Wl Holland Wma Bayou Canot Fw 17	Yes
Florida	Abe Trull Research Natural Area	Yes
Florida	Apalachicola River Wildlife Area	Yes
Florida	Aucilla Wildlife Management Area	Yes
Florida	Bald Point State Park	Yes
Florida	Big Bend Wildlife Management Area	Yes
Florida	Box-R Wildlife Management Area	Yes
Florida	Byrd Hammock Research Natural Area	Yes
Florida	Camp Helen State Park	Yes
Florida	Cape St. George State Reserve	Yes
Florida	Choctawhatchee River Delta Preserve	Yes
Florida	Coggins Branch Research Natural Area	Yes
Florida	Deer Lake State Park	Yes
Florida	Eastpoint Preserve	Yes
Florida	Econfina Conservation Area	Yes

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Florida	Econfina River State Park	Yes
Florida	Eden Gardens State Park	Yes
Florida	Edward Ball Wakulla Springs State Park	Yes
Florida	Fred Gannon Rocky Bayou State Park	Yes
Florida	Gulf Islands National Seashore	Yes
Florida	Gum Swamp Research Natural Area	Yes
Florida	Henderson Beach State Park	Yes
Florida	Jeff Lewis Wilderness Preserve	Yes
Florida	John Gorrie Museum State Park	Yes
Florida	John S. Phipps Preserve	Yes
Florida	Levy Ditch Research Natural Area	Yes
Florida	Middle Aucilla Conservation Area	Yes
Florida	Ochlockonee River State Park	Yes
Florida	Orman House Historic State Park	Yes
Florida	Perdido River Nature Preserve	Yes
Florida	San Marcos De Apalache State Hist. Site	Yes
Florida	Snipe Island Unit	Yes
Florida	Ss Tarpon Underwater Arch. Pres.	Yes
Florida	St. George Island State Park	Yes
Florida	St. Joseph Bay State Buffer Preserve	Yes
Florida	St. Joseph Peninsula State Park	Yes
Florida	St. Marks Nwr	Yes
Florida	St. Vincent National Wildlife Refuge	Yes
Florida	Tarkiln Bayou Preserve State Park	Yes
Florida	Tate's Hell Wildlife Management Area'	Yes
Florida	Topsail Hill Preserve State Park	Yes
Florida	Uss Massachusetts Underwater Arch. Pres.	Yes
Florida	Vamar Underwater Arch. Pres.	Yes
Florida	Wacissa Conservation Area	Yes
Florida	Wakulla Springs State Park	Yes
Florida	Yellow River Marsh Preserve State Park	Yes
Florida	Yellow River Wma-Escribano Point	Yes
Louisiana	Atchafalaya Delta Wma	Yes
Louisiana	Bayou Sauvage National Wildlife Refuge	Yes
Louisiana	Bayou Teche National Wildlife Refuge	Yes
Louisiana	Big Branch Marsh Natl Wildlife Refuge	Yes
Louisiana	Biloxi Wma	Yes
Louisiana	Breton National Wildlife Refuge	Yes
Louisiana	Cameron Prairie Nwr - East Cove Unit	Yes
Louisiana	Cat Island National Wildlife Refuge	Yes



<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Cypremort Point State Park	Yes
Louisiana	Delta National Wildlife Refuge	Yes
Louisiana	Elmer's Island Wildlife Refuge	Yes
Louisiana	Govan Tract	Yes
Louisiana	Grand Cheiner (Hollister Easement)	Yes
Louisiana	Grand Isle Port Commission Tract	Yes
Louisiana	Grand Isle State Park	Yes
Louisiana	Grassy Lake Wma	Yes
Louisiana	Grilletta Tract	Yes
Louisiana	Hammer Creek Woods (Standifer Easement)	Yes
Louisiana	Isles Dernieres Barrier Islands Refuge	Yes
Louisiana	Jean Lafitte Ntl Historic Pk & Preserve	Yes
Louisiana	Landry Leblanc Tract	Yes
Louisiana	Maples Tract	Yes
Louisiana	Marsh Island Wildlife Refuge	Yes
Louisiana	Mary Ann Brown Preserve	Yes
Louisiana	Maurepas Swamp Wma	Yes
Louisiana	Pass A Loutre Wma	Yes
Louisiana	Pearl River Wma	Yes
Louisiana	Pointe Aux Chenes Wma	Yes
Louisiana	Richard K. Yancey Wma	Yes
Louisiana	Rockefeller Wildlife Refuge	Yes
Louisiana	Sabine National Wildlife Refuge	Yes
Louisiana	Salvador Wma	Yes
Louisiana	Shell Keys National Wildlife Refuge	Yes
Louisiana	St Bernard State Park	Yes
Louisiana	State Wildlife Refuge	Yes
Louisiana	Timken Wma	Yes
Louisiana	Tunica Hills Wma	Yes
Louisiana	Wellman Baus Tract	Yes
Mississippi	Bayou Lacroix Coastal Preserve	Yes
Mississippi	Bayou Portage Coastal Preserve	Yes
Mississippi	Bellefontaine Point Coastal Preserve	Yes
Mississippi	Biloxi River Coastal Preserve	Yes
Mississippi	Buccaneer State Park	Yes
Mississippi	Cat Island Coastal Preserve	Yes
Mississippi	Cat Island National Wildlife Refuge	Yes
Mississippi	Davis Bayou Coastal Preserve	Yes
Mississippi	Deer Island Coastal Preserve	Yes
Mississippi	Escatawpa River Coastal Preserve	Yes

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Mississippi	Grand Bay Coastal Preserve	Yes
Mississippi	Grand Bay National Wildlife Refuge	Yes
Mississippi	Grand Bayou Coastal Preserve	Yes
Mississippi	Graveline Bay Coastal Preserve	Yes
Mississippi	Gulf Islands National Seashore	Yes
Mississippi	Hancock County Marsh Coastal Preserve	Yes
Mississippi	Horn Island Coastal Preserve	Yes
Mississippi	Jourdan River Coastal Preserve	Yes
Mississippi	Mississippi Sandhill Crane Nwr	Yes
Mississippi	Old Fort Bayou Coastal Preserve	Yes
Mississippi	Pascagoula River Coastal Preserve	Yes
Mississippi	Petit Bois Island Coastal Preserve	Yes
Mississippi	Round Island Coastal Preserve	Yes
Mississippi	Shepard State Park	Yes
Mississippi	Ship Island Coastal Preserve	Yes
Mississippi	Spoil Bank Coastal Preserve	Yes
Mississippi	Ward Bayou Wildlife Management Area	Yes
Mississippi	Wolf River Coastal Preserve	Yes
Texas	Anahuac National Wildlife Refuge	Yes
Texas	Armand Bayou Coastal Preserve	Yes
Texas	Armand Bayou Nature Center	Yes
Texas	Atkinson Island Wma	Yes
Texas	Big Boggy National Wildlife Refuge	Yes
Texas	Bolivar Flats	Yes
Texas	Brazoria National Wildlife Refuge	Yes
Texas	Candy Abshier Wma	Yes
Texas	Christmas Bay Coastal Preserve	Yes
Texas	Clive Runnells Fam Mad Isl Marsh Presrv	Yes
Texas	Dollar Bay Easement	Yes
Texas	Galveston Island Sp	Yes
Texas	High Island Easement	Yes
Texas	J.D. Murphree Wma	Yes
Texas	Justin Hurst Wma	Yes
Texas	Little Pelican Island	Yes
Texas	Lone Oak Spoil & Shell	Yes
Texas	Lower Neches Wma	Yes
Texas	Mad Island Wma	Yes
Texas	Mcfaddin National Wildlife Refuge	Yes
Texas	North Deer Island	Yes
Texas	Pierce Marsh Easement	Yes

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Texas	Rollover Island	Yes
Texas	Sabine Pass Battleground Sp/Shs	Yes
Texas	San Bernard National Wildlife Refuge	Yes
Texas	San Jacinto Battleground Shs	Yes
Texas	San Jacinto Monument Sp	Yes
Texas	Sea Rim Sp	Yes
Texas	Sheldon Lake Sp	Yes
Texas	Smith Point Spoil	Yes
Texas	Snake Island	Yes
Texas	Sydney Island	Yes
Texas	Texas City Prairie Preserve	Yes
Texas	Texas Point National Wildlife Refuge	Yes
Texas	Tony Houseman Wma	Yes
Texas	Vingt-Et-Un Islands	Yes
Texas	West Bay Bird Island	Yes
Alabama	Alabama Beach Mouse Critical Habitat	No
Alabama	Alba Club Boat Launch	No
Alabama	Alba Club Marina	No
Alabama	Archaeological Site	No
Alabama	Bay Yachting Center	No
Alabama	Beachcomber Dry Dock And Marina	No
Alabama	Bear Point Marina	No
Alabama	Blakeley Addition Fw 8	No
Alabama	Boat Ramp	No
Alabama	Brookley Airport	No
Alabama	Buccaneer Yacht Club	No
Alabama	Chickasaw Marina	No
Alabama	Cloverleaf Landing	No
Alabama	Colony Cove Yacht Club	No
Alabama	Dauphin Island Airport	No
Alabama	Dauphin Island Marina	No
Alabama	Deep Sea Fishing Rodeo Basin	No
Alabama	Dog River Marina	No
Alabama	Eastern Shore Marina	No
Alabama	Fair Harbor Marina	No
Alabama	Fairhope Municipal Airport	No
Alabama	Fairhope Pier	No
Alabama	Fairhope Yacht Club	No
Alabama	Fishermen's Landing	No
Alabama	Fishermen's Marina	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Alabama	Fort Morgan Airport (Historical)	No
Alabama	Fowl River Marina	No
Alabama	Grand Hotel	No
Alabama	Grand Mariner	No
Alabama	Griffith's Marina	No
Alabama	Historical Site	No
Alabama	Hook, Line, & Sinker	No
Alabama	Hudson Marina	No
Alabama	Jack Edwards Airport	No
Alabama	Kit's Marina	No
Alabama	Lake Forest Yacht Club	No
Alabama	Meaher State Park Boat Ramp	No
Alabama	Mess About Marina	No
Alabama	Mobile Yacht Club	No
Alabama	Morgan's Marina	No
Alabama	Mullet Point Park	No
Alabama	Orange Beach Charter Boat Basin	No
Alabama	Orange Beach Marina	No
Alabama	Outcast Charter Marina	No
Alabama	Perdido Key Beach Mouse Critical Habitat	No
Alabama	Perdido Pass Marina	No
Alabama	Pines Public Access Boat Ramp	No
Alabama	Piping Plover Critical Habitat	No
Alabama	Pirate's Cove Marina	No
Alabama	Recreational Beach	No
Alabama	River Park Marina	No
Alabama	River Yacht Basin	No
Alabama	Romar Harbor Ho-Dri Marina	No
Alabama	Roy E Ray Airport	No
Alabama	Safe Harbor Marina	No
Alabama	Safe Harbour	No
Alabama	Sailboat Bay	No
Alabama	Sand Island Marina	No
Alabama	Satsuma City Marina	No
Alabama	Southern Marina	No
Alabama	Southern Marine Boat Landing	No
Alabama	Sportsman's Marina	No
Alabama	Turner Marine	No
Alabama	Walter Trent Marina	No
Alabama	Weeks Bay Boat Ramp	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Alabama	Winters Marina	No
Alabama	Zeke's Marina	No
Florida	Aadventures At Sea	No
Florida	Access	No
Florida	Ajs High And Dry Marina	No
Florida	Alaqua Creek Boat Launch	No
Florida	Alaqua Creek Park	No
Florida	Alfa Seafood Wharf	No
Florida	Alice G	No
Florida	Alligator Harbor Aquatic Preserve	No
Florida	Alligator Harbor Clam Aquaculture	No
Florida	Alligator Point	No
Florida	Alligator Point Yacht Basin Marina	No
Florida	Ancient Age	No
Florida	Anna Pepina	No
Florida	Apalachee Bay Yacht Club	No
Florida	Apalachicola Bay Aquatic Preserve	No
Florida	Apalachicola Marina	No
Florida	Apalachicola National Forest	No
Florida	Apalachicola Nerr	No
Florida	Apalachicola River And Bay Swim	No
Florida	Apalachicola River Water Management Area	No
Florida	Aplachicola Municipal Marina	No
Florida	Archaeological Site	No
Florida	Archie Glover Boat Ramp	No
Florida	Artificial Reef	No
Florida	Aucilla River Swim	No
Florida	Bagdad Boat Ramp	No
Florida	Bahia Mar Marina	No
Florida	Bal Alex Boat Ramp	No
Florida	Bald Point Sp	No
Florida	Bald Point State Park Kayak Launch	No
Florida	Barge Slip	No
Florida	Barge Terminal Wharf	No
Florida	Basin Landing	No
Florida	Battery Park & Marina	No
Florida	Bay City Lodge	No
Florida	Bay County Public Boat Ramp	No
Florida	Bay County Water System	No
Florida	Bay Point Marina	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Florida	Bay Pointe Marina	No
Florida	Bayhead North Boat Ramp	No
Florida	Bayhead South Boat Ramp	No
Florida	Baylen Slip Marina Inc	No
Florida	Bayou Grande Marina (Nas)	No
Florida	Bayou Texar Boat Ramp	No
Florida	Bayside Marina	No
Florida	Bayside Trailer Park & Marina	No
Florida	Baytowne Marina	No
Florida	Bayview Avenue Boat Ramp	No
Florida	Bayview Park	No
Florida	Beacon Hill Park	No
Florida	Bell Marine Service	No
Florida	Ben	No
Florida	Berth No 1	No
Florida	Berth No 2	No
Florida	Berth No 6	No
Florida	Berth Nos 14 And 15	No
Florida	Berths Nos 3 And 5	No
Florida	Big Bend Seagrasses Aquatic Preserve	No
Florida	Big Cedar	No
Florida	Big Lagoon State Recreation Area	No
Florida	Black Creek Lodge	No
Florida	Black Pearl Charters	No
Florida	Blackwater River State Forest	No
Florida	Blackwater River Water Management Area	No
Florida	Bloody Bluff - Fwc # Wb-38	No
Florida	Blue Dolphin Drive Road Ramp	No
Florida	Bluewater Bay Marina	No
Florida	Bluewater Bay Marina Complex	No
Florida	Bluff Road Ramp	No
Florida	Boat Ramp	No
Florida	Boat Ramp At Buckhorn Creek	No
Florida	Boat Ramp At Cypress Pond	No
Florida	Bob George Park Boat Ramp	No
Florida	Bonita Bay Tyndall Afb	No
Florida	Bowers Marine Svc & Supply	No
Florida	Brannons' Seafood Dock	No
Florida	Brickyard Landing	No
Florida	Bride Of Lorne	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Florida	Brook's Bridge Bait & Tackle	No
Florida	Brown Marine Service Pier	No
Florida	Brown's Fish Camp	No
Florida	Burketts Boat Ramp	No
Florida	Burnt Mill Creek Boat Ramp	No
Florida	Cabradroca	No
Florida	Callaway Community Center	No
Florida	Cape San Blas	No
Florida	Cape San Blas Afb	No
Florida	Captain Anderson Marina	No
Florida	Carl Grey Wayside Park	No
Florida	Carpenter's Park	No
Florida	Carpenter's Park Ramp Iii	No
Florida	Carrabelle Marina	No
Florida	Carrabelle River Marina	No
Florida	Cash Creek - Fwc # Wb-30	No
Florida	Catherine	No
Florida	Chas E Cessna Landing	No
Florida	Cherokee Landing	No
Florida	Cherry Street Landing	No
Florida	Chico Marina	No
Florida	Choctawatchee Bay Swim	No
Florida	Choctawe Beach Park	No
Florida	Choctawhatchee Bay Ramp Central	No
Florida	Choctawhatchee Bay Ramp North	No
Florida	Choctawhatchee Bay Ramp South	No
Florida	Choctawhatchee Beach Mouse	No
Florida	Choctawhatchee National Forest	No
Florida	Choctawhatchee River Water Ma	No
Florida	Christ Power Plant	No
Florida	City Of Fort Walton Beach	No
Florida	City Of Mexico Beach Public Boat Ramp	No
Florida	City Of Pensacola Boat Ramp	No
Florida	City Of Port St Joe Water Pump Station	No
Florida	City Park	No
Florida	Civitan Park	No
Florida	Clement Taylor Park	No
Florida	Condo Complex	No
Florida	Constitution Convention Museum Sp	No
Florida	Cook Bayou Marina	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Florida	Cook Fish Co Pier	No
Florida	Cottage Hill State Forest	No
Florida	County Bchs	No
Florida	C-Quarters Marina	No
Florida	Crews Lake Ramp	No
Florida	Crist Electric Generating Plant	No
Florida	Crist Steam Plant Wharf	No
Florida	Critical Habitat For 7 Mussels	No
Florida	Crooked Island	No
Florida	D & J Dry Storage Inc	No
Florida	Dan Russell Municipal Pier	No
Florida	Danley Boat Ramp	No
Florida	Davy's Navy	No
Florida	Day Break Marina	No
Florida	Deep Water Marina-Apalachicola	No
Florida	Deerpont Draw Down Boat Ramp	No
Florida	Desoto Canyon Ca	No
Florida	Destin Fisherman Co-Op	No
Florida	Destin Marina	No
Florida	Dickerson City Ramp	No
Florida	Diving	No
Florida	Dock	No
Florida	Dock 4, Fishing Vessel Piers	No
Florida	Dockside Marina & Boat Works	No
Florida	Dockside Marina & Boatworks	No
Florida	Dog Isl	No
Florida	Dog Island	No
Florida	Dolphin Drive Boat Ramp	No
Florida	Donald Penny Boat Ramp	No
Florida	Donaldson Point	No
Florida	Dont Cha Know	No
Florida	Doyle Creek	No
Florida	Drifter	No
Florida	E.E. Simpson	No
Florida	Earl Gilbert Park	No
Florida	East Pass Marina	No
Florida	East Piers	No
Florida	East River Boat Ramp	No
Florida	East River Landing	No
Florida	Eastern Lake County Park	No



<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Florida	Econfina Creek Water Management Area	No
Florida	Econfina State Park	No
Florida	Eden	No
Florida	Edrehi Ramp	No
Florida	Eglin Afb	No
Florida	Eglin Air Force Base	No
Florida	Empire Mica	No
Florida	Enjoy	No
Florida	Etheridge Marina	No
Florida	F/V Crawfish	No
Florida	Fanning Bayou Boat Ramp	No
Florida	Ferry Dock Ramp	No
Florida	Fishermans Landing Rv Park	No
Florida	Florida Coast Paper Co Wharf	No
Florida	Florida Gulfarium	No
Florida	Florida Park	No
Florida	Floridatown Park	No
Florida	Flounders Chowder House Restaurant Dock	No
Florida	Fort Barrancas	No
Florida	Fort Pickens Bch	No
Florida	Fort Pickens Fishing Pier	No
Florida	Fort Pickens State Park Aquatic Preserve	No
Florida	Fort Walton Beach City Dock	No
Florida	Fort Walton Beach Yacht Club	No
Florida	Fort Walton Yacht Basin	No
Florida	Four Mile Creek	No
Florida	Francille	No
Florida	Franklin Shipbuilding	No
Florida	Fred Gannon Rocky Bayou Park	No
Florida	Freeport Sulphur Co Wharf	No
Florida	Freeport Terminal	No
Florida	Frosted Flatwoods Salamander	No
Florida	Fsu Coastal And Marine Laboratory	No
Florida	Galvez Landing Boat Ramp	No
Florida	Ganders Marine	No
Florida	Garcon Point Boat Ramp	No
Florida	Garcon Point Water Management Area	No
Florida	Gardener Landing - Fwc # Wb-39	No
Florida	Gelmer	No
Florida	Gene's Marina	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Florida	Gigi Iv	No
Florida	Gilman Marine	No
Florida	Goose Pasture	No
Florida	Graham Creek - Fwc # Wb-40	No
Florida	Grand Lagoon Yacht Club	No
Florida	Grayston Beach State Park	No
Florida	Grayton Bch	No
Florida	Grayton Beach State Recreation Area	No
Florida	Gretchen Lane Ramp	No
Florida	Gulf Breeze Pier	No
Florida	Gulf Isl Ns	No
Florida	Gulf Islands Ns - Perdido Key	No
Florida	Gulf Lagoon Bch	No
Florida	Gulf Marina	No
Florida	Gulf Specimen Marine Lab Aquaculture	No
Florida	Gulf Specimen Marine Lab Water Intake	No
Florida	Gulf Sturgeon Critical Habitat	No
Florida	Gulf World Marine Park	No
Florida	Hammock Lake 1	No
Florida	Hammock Lake 2	No
Florida	Happy Four	No
Florida	Harbor View Marina	No
Florida	Harborwalk Marina	No
Florida	Henderson Beach State Recreation Area	No
Florida	Hendry Barge No.20	No
Florida	Hide-A-Way Harbor Marina	No
Florida	High Point Landing - Fwc # Wb-51	No
Florida	Highland View Public Ramp	No
Florida	Historic Property	No
Florida	Holiday Harbor Marina	No
Florida	Holiday Lodge	No
Florida	Holley Boat Ramp #1	No
Florida	Hollywood Bch	No
Florida	Howard Johnson Hotel Docks	No
Florida	Hurlburt Field	No
Florida	Hurlburt Field Marina	No
Florida	Indian Bayou Boat Ramp	No
Florida	Indian Pass	No
Florida	Indian Pass Campground	No
Florida	Ira Hutchinson Boat Ramp	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Florida	Island Cove Marina	No
Florida	Islander	No
Florida	Jim's Fish Camp	No
Florida	Joe's Bayou Boat Ramp	No
Florida	Karma	No
Florida	Lady Susan	No
Florida	Lafayette Creek/Shipyard Rd	No
Florida	Lafitte Cove Marina	No
Florida	Lagoon Motel	No
Florida	Lake Ellen	No
Florida	Lake Powell Boat Ramp	No
Florida	Lanark Village Boat Club	No
Florida	Landfall Marina	No
Florida	Landing Apartments & Marina	No
Florida	Lansing T Smith Steam Plant Dock	No
Florida	Lee Spears & Son Pay Ramp/Spring Creek	No
Florida	Legendary Marina - Destin	No
Florida	Legendary Marine - Fort Walton	No
Florida	Legion Park	No
Florida	Leslie Porter Wayside Park	No
Florida	Levy Bay (Circle Point) Boat Ramp	No
Florida	Lighthouse Key Marina & Boat	No
Florida	Lighthouse Marina	No
Florida	Lincoln Park	No
Florida	Lions Park	No
Florida	Liquid Transfer Terminals	No
Florida	Little Tots	No
Florida	Live Rock (Coral) Lease	No
Florida	Liza M Jackson Park	No
Florida	Longline & Buoy Gear Restricted Area	No
Florida	Lower Bridge Boat Ramp	No
Florida	Lower Escambia River Water Ma	No
Florida	M. B. Miller Park County Pier	No
Florida	Mac's Marina	No
Florida	Mahogany Mills Boat Ramp	No
Florida	Main Street Park	No
Florida	Malery Woods Drive Ramp	No
Florida	Marie Jose	No
Florida	Marina Bay Resort	No
Florida	Marina Cafe	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Florida	Marine Street In Carrabelle	No
Florida	Maritimer	No
Florida	Marquardt's Marina	No
Florida	Marquardt's Marina & Yacht Sl's	No
Florida	Marquis Basin Boat Ramp	No
Florida	Marquis Bayou Boat House	No
Florida	Marshes Sands Boat Ramp	No
Florida	Mary Esther Dock	No
Florida	Mary J Ii	No
Florida	Mashes Sands Bch	No
Florida	Mashes Sands Beach	No
Florida	Mashes Sands Park	No
Florida	Mattie Kelly Park	No
Florida	Mc Kenzie Road Boat Ramp	No
Florida	Mccall-Everitt Boat Ramp	No
Florida	Mcmillans Fish Camp	No
Florida	Mercury Marine	No
Florida	Mexico Beach	No
Florida	Mexico Beach Marina	No
Florida	Mexico Beach Municipal Marina	No
Florida	Mexico Beach Pier	No
Florida	Miller Marine Inc	No
Florida	Millview	No
Florida	Millview/Heron Bayou Boat Ramp	No
Florida	Miss Aline	No
Florida	Miss Liz	No
Florida	Miss Tammy	No
Florida	Moorings At Carrabelle	No
Florida	Moorings Marina/Sea Change	No
Florida	Morrell Boat Ramp	No
Florida	Mulat Boat Ramp I	No
Florida	Muscogee Dock	No
Florida	Mysterious Waters Road Ramp	No
Florida	N Bayshore Drive Ramp	No
Florida	Naval Diving And Training Center	No
Florida	Navarre Bch	No
Florida	Navarre Beach - Fwc # Wb-47	No
Florida	Navarre Beach Campground	No
Florida	Navarre Beach Fishing Pier	No
Florida	Navy Point Park	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Florida	Navy Support Activity Panama City	No
Florida	New Mexico Beach Public Ramp	No
Florida	New Moon	No
Florida	New Tarpon Dock Marina	No
Florida	Newport Landing	No
Florida	Niceville Terminal	No
Florida	Nichols Seafood Restaurant and Marina	No
Florida	Nichols Seafood Restaurant & Marina	No
Florida	Nick's Boat Ramp	No
Florida	Noaa Nmfs Panama City Laboratory	No
Florida	Nutall Rise - Fwc # 61	No
Florida	Ochlockonee Bay Ramp	No
Florida	Ochlockonee River And Sopchoppy Highway	No
Florida	Okaloosa Island Fishing	No
Florida	Old Bob Sikes Bridge Fishing Pier-North	No
Florida	Old Bob Sikes Bridge Fishing Pier-South	No
Florida	Old River Landing	No
Florida	Oriole Beach Boat Ramp	No
Florida	Otter Lake Boat Ramp	No
Florida	Overstreet Ramp	No
Florida	Oyster Bar Marina	No
Florida	Oyster Pile Boat Ramp	No
Florida	Palafox Pier And Yacht Harbor Marina	No
Florida	Palm Harbor Marina	No
Florida	Pan Dallas	No
Florida	Panama City Bch	No
Florida	Panama City Facility	No
Florida	Panama City Marina	No
Florida	Panama City Marina Wharf	No
Florida	Panama City Marine And Rail Terminal	No
Florida	Panama City Marine Yard Piers	No
Florida	Panama City Mill	No
Florida	Panama City Mooring Basin	No
Florida	Panama City Plant, No 1 Dock	No
Florida	Panama City Plant, No 2 Dock	No
Florida	Panama City Site Office, Wharf	No
Florida	Panama City Terminal	No
Florida	Panama City Terminal Dock	No
Florida	Panama City Terminal Wharf	No
Florida	Panama City Terminal, Mooring Dock	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Florida	Panama City Terminals, Dock	No
Florida	Panama City Wharf	No
Florida	Panama City-Bay County International	No
Florida	Parasol West Homeowners	No
Florida	Parkerville	No
Florida	Patti Shipyard Wharf	No
Florida	Pelicans Perch Marina And Boatyard	No
Florida	Pensacola Asphalt Terminal	No
Florida	Pensacola Bay Bridge Wayside Park	No
Florida	Pensacola Bay Swim	No
Florida	Pensacola Bch	No
Florida	Pensacola Beach Fishing Pier	No
Florida	Pensacola Beach Free Municipal Dock	No
Florida	Pensacola Beach Yacht Club	No
Florida	Pensacola Facility	No
Florida	Pensacola Fishing Bridge	No
Florida	Pensacola Marine Complex	No
Florida	Pensacola Nas	No
Florida	Pensacola Plant	No
Florida	Pensacola Plant Dock	No
Florida	Pensacola Regional	No
Florida	Pensacola Shipyard	No
Florida	Pensacola Terminal	No
Florida	Pensacola Terminal - West	No
Florida	Pensacola Terminal Wharf	No
Florida	Pensacola Terminals Pier	No
Florida	Pensacola Yacht Club	No
Florida	Pensacola Yard, Wharf	No
Florida	Perdido Cove Resort And Marina	No
Florida	Perdido Cove Rv	No
Florida	Perdido Key Beach Mouse Critical Habitat	No
Florida	Perdido Key Sra	No
Florida	Perdido Key State Recreation Area	No
Florida	Perdido River Boat Ramp	No
Florida	Perdido River Water Management Area	No
Florida	Pier 98 Marina	No
Florida	Pier One Marina	No
Florida	Piers	No
Florida	Pine Log Creek	No
Florida	Pine Log Landing	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Florida	Pine Log State Forest	No
Florida	Piping Plover Critical Habitat	No
Florida	Playa Del Rio Rv Park	No
Florida	Pogy Rd Ramp	No
Florida	Point Washington State Forest	No
Florida	Pond Boat Ramp	No
Florida	Poquito Bayou County Park	No
Florida	Port Lagoon Yacht Basin	No
Florida	Port Panacea Marina	No
Florida	Port St Joe Dock	No
Florida	Port St Joe Marina	No
Florida	Port St. Joe Facility	No
Florida	Porter Island Public Boat Ramp	No
Florida	Porter Lake Retreat	No
Florida	Presnells Bayside Resort And Marina	No
Florida	Presnell's Marina	No
Florida	Purdon Power Plant	No
Florida	Quail Street Boat Ramp	No
Florida	Quintette Boat Ramp	No
Florida	Rattlesnake Ramp	No
Florida	Reef Fish Stressed Area	No
Florida	Relentless Charter Fishing	No
Florida	Resort At Shell Point	No
Florida	Reticulated Flatwoods Salamander	No
Florida	Rhoda	No
Florida	Rickey Ave Ramp	No
Florida	River Run Marina	No
Florida	Riverside Marina	No
Florida	Rock Landing Ramp	No
Florida	Rocky Bayou State Park Aquatic Preserve	No
Florida	Rocky Bayou State Recreation Area	No
Florida	Roll-On, Roll-Off Facility Wharf	No
Florida	Rooks Marina	No
Florida	Ross Marler Park	No
Florida	Ruby's Fish Camp	No
Florida	Russel Harbor Landing	No
Florida	Russell Harber - Fwc # Wb-45	No
Florida	Sabine Marina	No
Florida	Sabine Yacht & Racquet Club	No
Florida	Safari Street Boat Ramp	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Florida	Sailor'S Supply	No
Florida	Saint Andrews State Recreation Area	No
Florida	Salinas Park	No
Florida	Sam O. Purdom Generating Station	No
Florida	San Pablo	No
Florida	Sanders Beach Recreation Complex	No
Florida	Sandpiper Cove Marina	No
Florida	Sandy Creek - Fwc # Wb-48	No
Florida	Sandy P	No
Florida	Santa Rosa Yacht And Boat Club	No
Florida	Savage Landing	No
Florida	Scipio Creek Marina	No
Florida	Sea Ray	No
Florida	Sea Way Boat Ramp At Cinco Bay	No
Florida	Seagull Restaurant	No
Florida	Seaspray	No
Florida	Seaweed V	No
Florida	Seville Harbor Marina	No
Florida	Shalimar Yacht Basin	No
Florida	Shalimar Yacht Basin Inc	No
Florida	Shell Island Fish Camp	No
Florida	Shell Point Bch	No
Florida	Shell Point Resort Marina	No
Florida	Shellfish Harvesting Area	No
Florida	Sherman Cove Marina	No
Florida	Sherman Yard Pier	No
Florida	Shields Marina	No
Florida	Shields Riverside Marina Inc	No
Florida	Ships Chandler	No
Florida	Shipwatch Surf & Yacht Club	No
Florida	Shoreline Circle Boat Ramp	No
Florida	Shoreline Park	No
Florida	Shorty's Boy	No
Florida	Sides Marine Dry Storage	No
Florida	Simpson River	No
Florida	Smith Power Plant	No
Florida	Smiths Fish House	No
Florida	Smiths Yacht Basin	No
Florida	Smith's Yacht Basin	No
Florida	Sopchoppy City Park	No



<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Florida	Soundside Inn/Bayside Inn	No
Florida	South Bulkhead Wharf	No
Florida	South Dock	No
Florida	Southwind Marina	No
Florida	Spanish Fly	No
Florida	Sport	No
Florida	Sportsman Lodge Motel & Marina	No
Florida	Spring Creek Fish Camp	No
Florida	Ss Tarpon	No
Florida	St Andrews Bay Yacht Club	No
Florida	St Andrews Marina	No
Florida	St Andrews Marina Wharves	No
Florida	St Andrews Sp	No
Florida	St Geo Isl Sp	No
Florida	St Joe Bch	No
Florida	St Joe Penin Sp	No
Florida	St Marks Unit Boat Ramp	No
Florida	St. Andrew Bay Watershed Swim	No
Florida	St. Andrews Beach Mouse Critical Habitat	No
Florida	St. Andrews Sra - Grand Lagoon Pier	No
Florida	St. Andrews Sra - Gulf Pier	No
Florida	St. Andrews State Park Aquatic Preserve	No
Florida	St. Andrews State Recreation Area	No
Florida	St. George Island Bridge West	No
Florida	St. George Island Fishing Pier-North	No
Florida	St. George Island Fishing Pier-South	No
Florida	St. George Island Park 1	No
Florida	St. George Island Park 2	No
Florida	St. Joseph Bay Aquatic Preserve	No
Florida	St. Marks City Public Boat Launch	No
Florida	St. Marks Nwr - Aucilla River	No
Florida	St. Marks Nwr/Lighthouse Point	No
Florida	St. Marks River Swim	No
Florida	St. Teresa Wayside Park	No
Florida	Store (Lovel Leo V & Mary J- Owners)	No
Florida	Sun Harbor Marina	No
Florida	Swamphouse Marina And Landing	No
Florida	T H Stone Memorial St Joseph Peninsul	No
Florida	Tarpon	No
Florida	Tate's Hell State Forest	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Florida	Taurus	No
Florida	Tharp's Fish Camp	No
Florida	The Boat Marina And Boat Yard	No
Florida	The Fish Camp	No
Florida	The Mariner	No
Florida	The Outpost	No
Florida	Thelma	No
Florida	Tibbetts Boat Works Inc	No
Florida	Tibbetts Boat Works Piers	No
Florida	Tide Creek Drive Ramp	No
Florida	Timber Island Ramp	No
Florida	T-Pier	No
Florida	Treasure Island Marina	No
Florida	Treasure Island Marina - Destin	No
Florida	Try Me	No
Florida	Twin Cities Park	No
Florida	Tyndall Afb	No
Florida	Tyndall Afb - Bonita Bay Recreation Area	No
Florida	Tyndall Afb Yacht Club	No
Florida	Tyndall Air Force Base	No
Florida	Tyndall Air Force Base Pier	No
Florida	Uncle Sam	No
Florida	Unknown Boat Ramp	No
Florida	Unknown Off Cr 30a	No
Florida	Unknown Off Hwy 98	No
Florida	Unknown On Jones Homestead Rd	No
Florida	Unknown Ramp	No
Florida	Unnamed Boat Ramp (Silver Lake)	No
Florida	Unnamed Boat Ramp (Wakulla River)	No
Florida	Us 331 Fishing Pier-North	No
Florida	Us 331 Fishing Pier-South	No
Florida	Us Epa Gulf Ecology Division	No
Florida	Uscg Aids To Navigation Team	No
Florida	Uscg Station	No
Florida	Uscg Station Destin	No
Florida	Uss Massachusetts	No
Florida	Vamar	No
Florida	Venture Out Resort	No
Florida	Viking Iv	No
Florida	Virginia ""A""	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Florida	Wakulla Beach Public Boat Ramp	No
Florida	Wakulla County Boat Ramp	No
Florida	Wakulla State Forest	No
Florida	Walkegde Drive	No
Florida	Walt's Swamphouse And Marina (East)	No
Florida	Walt's Swamphouse And Marina (West)	No
Florida	Wandering Star	No
Florida	Water Street Hotel & Marina	No
Florida	Water Street Seafood	No
Florida	Waterview Yacht Club Marina	No
Florida	Watson Bayou Marina	No
Florida	Wayside Park	No
Florida	West Berth 4	No
Florida	West Berths 1, 2, And 3	No
Florida	West Piers	No
Florida	Western Lake Ramp	No
Florida	Wharf	No
Florida	Wharf And Mooring Piers	No
Florida	Whiskey George - Fwc # Wb-41	No
Florida	Whitaker Oil Co Dock	No
Florida	White City Boat Ramp	No
Florida	White Water Ramp	No
Florida	Whitfield Landing	No
Florida	Windward	No
Florida	Wma-Nw-03	No
Florida	Wood Lake Boat Ramp	No
Florida	Woodlawn Beach Boat Ramp	No
Florida	Woods Fisheries - Shrimp Farm	No
Florida	Woods Fisheries-Shrimp Processing	No
Florida	Yacht Harbor Marina	No
Florida	Yankee Clipper	No
Florida	Yellow River Marsh Aquatic Preserve	No
Florida	Yellow River Water Management Area	No
Louisiana	12 Mile Anchorage	No
Louisiana	A & Z Marine Shipyard Wharf Yard Landing	No
Louisiana	A B Dock Services	No
Louisiana	A B Dock Services Wharf	No
Louisiana	A P Cenac Dk Dulac	No
Louisiana	Aaa Contracting Co	No
Louisiana	Abc Marine Towing Llc	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Abdon Callais Offsh Golden Meadow Crewbt	No
Louisiana	Abdon Callais Offsh Leeville Yard Wharf	No
Louisiana	Abdon Callais Port Fourchon	No
Louisiana	Adm Growmark, Paulina Terminal	No
Louisiana	Adm/Growmark	No
Louisiana	Adm/Growmark, Reserve Elevator Wharf	No
Louisiana	Air Logistics (Intracoastal City)	No
Louisiana	Air Logistics (Venice) N	No
Louisiana	Air Logistics Galliano	No
Louisiana	Air Oil Inc Nr 1	No
Louisiana	Air Oil Inc Nr 2	No
Louisiana	Air Prod And Chem Inc Michoud Canal	No
Louisiana	Air Prod And Chem Inc Michoud Canal Dock	No
Louisiana	Air Products And Chemicals	No
Louisiana	Alabo Street Wharf	No
Louisiana	Alderdice Bank Hapc	No
Louisiana	Algiers Lock	No
Louisiana	Algiers Point Ferry Landing	No
Louisiana	Alkali Ditch Pipeline	No
Louisiana	Allied Shipyard, Inc. Mooring Wharves	No
Louisiana	Allport Services, Llc	No
Louisiana	Allseas Usa, Inc. Port Fren Supply Wharf	No
Louisiana	Alpine Mud Products Wharf	No
Louisiana	Ama Anchorage	No
Louisiana	Ama La	No
Louisiana	Amax Metals Recovery	No
Louisiana	Amax Metals Recovery Inc	No
Louisiana	Amax Metals Recovery Wharves	No
Louisiana	Ambar Corp Wharves	No
Louisiana	Ambar Corp.	No
Louisiana	Ambar Lone Star Fluid Services	No
Louisiana	Ambar Lonestar Fluid Services Co.	No
Louisiana	Amerada Hess Corp Cameron Wharf	No
Louisiana	American Cyanamid Company Helistop	No
Louisiana	Amoco Pipeline Co., Port Hudson Wharf	No
Louisiana	Anchorwate Belle Chasse	No
Louisiana	Andry Street Wharf	No
Louisiana	Andy's Seafood Inc	No
Louisiana	Angelo Lafrante Construction	No
Louisiana	Angola Airstrip	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Angola Ferry Landings	No
Louisiana	Anr Pipeline	No
Louisiana	Apex Coal (Storage-Coke)	No
Louisiana	Arabi Mooring Services	No
Louisiana	Arcelormittal Recycling, La Place Wharf	No
Louisiana	Archaeological Site	No
Louisiana	Argosy Casino Wharf Co	No
Louisiana	Artco New Orleans Shipyard Slip	No
Louisiana	Artco Tulane Fleeting	No
Louisiana	Artco Tulane Fleeting, Canizaro	No
Louisiana	Artco Tulane Fleeting, Oak Alley	No
Louisiana	Artco Tulane Fleeting, Paulina	No
Louisiana	Artco Tulane Fltg Destrehan Dry Bulk Ldg	No
Louisiana	Artco Twelve Mile Fleet Mooring	No
Louisiana	Artificial Reef	No
Louisiana	Arundel Construction Company	No
Louisiana	Asco Oil And Gas Services Inc	No
Louisiana	Ashlawn Platform & Field	No
Louisiana	Ashton Marine Llc	No
Louisiana	Assoc Branch Pilots	No
Louisiana	Assoc Branch Pilots And Crescent Rvr	No
Louisiana	Assoc. Barge Terminal Of Baton Rouge	No
Louisiana	Assoc. Terminals, Baton Rouge	No
Louisiana	Atofina Petrochemicals, Cos-Mar Plant	No
Louisiana	Audubon Park Excursion Boat Landing	No
Louisiana	Avery Canal	No
Louisiana	Avoca Island Ferry Landing	No
Louisiana	Avondale	No
Louisiana	Avoyelles Parish Port	No
Louisiana	Azalea Fleet Inc Mooring	No
Louisiana	B & I Industries Inc Algiers Canal Dock	No
Louisiana	B.J. Services Co.	No
Louisiana	Baileys Seafood Monkey Island Wharf	No
Louisiana	Baker Atlas	No
Louisiana	Baker Hughes Drilling Fluids	No
Louisiana	Baker Hughes Inteq	No
Louisiana	Baker Hughes Inteq Wharf	No
Louisiana	Banta Fleet Corp., Dow Chemical	No
Louisiana	Baptiste Collette Launch Wharf	No
Louisiana	Baptiste-Collette Bayou River Launch	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Barataria & Fleming Canal	No
Louisiana	Barataria Bay	No
Louisiana	Barber Brothers, Waterloo Facility Dock	No
Louisiana	Baroid Drilling Fluids	No
Louisiana	Barriere Construction Co Inc	No
Louisiana	Bason's Marina	No
Louisiana	Bass Enterprises Production Co.	No
Louisiana	Bastian Bay	No
Louisiana	Baton Rouge	No
Louisiana	Baton Rouge City Excursion Wharf	No
Louisiana	Baton Rouge City Wharf	No
Louisiana	Baton Rouge General Hospital	No
Louisiana	Baton Rouge Harbor Service Wharf	No
Louisiana	Baton Rouge Metropolitan, Ryan Field	No
Louisiana	Bay And Ocean Equipment Co Inc	No
Louisiana	Bay Ltd Offshore	No
Louisiana	Bayou Bait And Tackle	No
Louisiana	Bayou Bienvenue	No
Louisiana	Bayou Bienville Marina	No
Louisiana	Bayou Black & Burton Shell Pile	No
Louisiana	Bayou Chevreuil Boat Launch	No
Louisiana	Bayou Dupre	No
Louisiana	Bayou Dupre & Lake Borgne Canal	No
Louisiana	Bayou Fleet Moorings	No
Louisiana	Bayou Lafourche Fabricators, L.L.C.	No
Louisiana	Bayou Lafourche Intake	No
Louisiana	Bayou Marine Fuel & Hardware Supplies	No
Louisiana	Bayou Norman	No
Louisiana	Bayou Oil	No
Louisiana	Bayou Sauvage Nwr Boat Launch	No
Louisiana	Bayou Sauvage Via Iww	No
Louisiana	Bayou Steel Corporation	No
Louisiana	Bayou Villars & Phelans Canal	No
Louisiana	Bby Marina	No
Louisiana	Beach	No
Louisiana	Beach Access	No
Louisiana	Bear Industries Inc., St. Gabriel, La	No
Louisiana	Bear Industries Landings	No
Louisiana	Beker	No
Louisiana	Belle Chasse Anchorage (Miss. R.)	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Belle Chasse Ferry Landing	No
Louisiana	Belle Chasse Marine Transp., Burnside	No
Louisiana	Belle Chasse Marine Transp., Grandview	No
Louisiana	Belle Chasse Marine Transportation	No
Louisiana	Belle Chasse Water District	No
Louisiana	Belle Isle Via Wax Lake	No
Louisiana	Bergeron Marine Mr-Go Bulk Term Wharf	No
Louisiana	Bergeron Marine Service Inc	No
Louisiana	Bertucci Contracting Corp Mooring	No
Louisiana	Berwick Bay Oil Venice Dock	No
Louisiana	Beverly Indust., Hahnville Aggreg. Yard	No
Louisiana	Beverly Industries/Vulcan Ica Distr	No
Louisiana	Bhp Billiton Petroleum (Americas), Inc.	No
Louisiana	Bienville St (Aquarium Landing) Wharf	No
Louisiana	Big Field Term Div Of Southern Ill Sand	No
Louisiana	Bill Taylor Boat Launch	No
Louisiana	Birdwin	No
Louisiana	Bisso Marine Co Inc Mooring	No
Louisiana	Bisso Towboat Co Inc Mooring	No
Louisiana	Bisso Towboat Co., Burnside Mooring	No
Louisiana	Bisso Towboat Co., Luling Wharf	No
Louisiana	Bizy Bee Marina	No
Louisiana	Bj Services Co.	No
Louisiana	Blackwater New Orleans, Llc	No
Louisiana	Blair Pump Station Launch	No
Louisiana	Blanchard Constr Grand Isle Wharves	No
Louisiana	Bluefin Tuna Hapc	No
Louisiana	Board Of Comm Of The Port Of New Orleans	No
Louisiana	Boat Ramp	No
Louisiana	Bobby Lynn's Marina	No
Louisiana	Boh Bros Construction Co Llc Mr-Go Dock	No
Louisiana	Bollinger Algiers Llc Pwdr Street Wharf	No
Louisiana	Bollinger Calcasieu	No
Louisiana	Bollinger Fourchon, L.L.C.	No
Louisiana	Bollinger Gretna Inc Slip And Wharf	No
Louisiana	Bollinger Gulf Repair Llc	No
Louisiana	Bollinger Quick Repair Llc	No
Louisiana	Bollinger Shipyards	No
Louisiana	Bolo Ice Corp Plant	No
Louisiana	Bonnet Carrie Spillway - Shipline	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Boomtown Casino Wstbnk Casino Boat Basin	No
Louisiana	Borden Chem., Geismar Industrial	No
Louisiana	Borden/Ocsa Intake	No
Louisiana	Boudreaux Canal & Store	No
Louisiana	Boudreaux's Marina	No
Louisiana	Boudreaux's Motel Boat Launch	No
Louisiana	Bouma Bank Hapc	No
Louisiana	Bp-Amoco	No
Louisiana	Bredero Price Co Inc Harvey Canal Wharf	No
Louisiana	Breton Sound	No
Louisiana	Breton Sound Marina	No
Louisiana	Bridge Side Marina	No
Louisiana	British Petroleum Company Grand Isle	No
Louisiana	British Petroleum Pass Fourchon Wharf	No
Louisiana	Broussard	No
Louisiana	Broussard Brothers	No
Louisiana	Browning Oil Co.	No
Louisiana	Buck Kreihs	No
Louisiana	Bud's Boat Rental	No
Louisiana	Bundy's Seafood Pier	No
Louisiana	Bunge Corp.	No
Louisiana	Bunge North America	No
Louisiana	Burns Point Launch	No
Louisiana	Burns Point Plant	No
Louisiana	Burns Term Burns La	No
Louisiana	Burrwood La	No
Louisiana	Bush Canal	No
Louisiana	Butch Crain Construction	No
Louisiana	Buzzi Unicem Usa	No
Louisiana	C - Port 1 Service Vessel Loading Slips	No
Louisiana	C - Port 2 Top Of E-Slip Yard Wharves	No
Louisiana	C - Port 3 Shipyard Wharves	No
Louisiana	C & C Marine And Repair Inc	No
Louisiana	C F Bean Corp Mooring	No
Louisiana	C F Industries, Donaldsonville Wharves	No
Louisiana	C&M Crane Service	No
Louisiana	C&M Crane Service Wharf	No
Louisiana	C, "Bull" Taulli Construction Co.	No
Louisiana	Cage Dock	No
Louisiana	Cage Freshwater Terminal	No



<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Cal Mire Field	No
Louisiana	Calcasieu Cutoff	No
Louisiana	Calcasieu Lock	No
Louisiana	California Co Wharf	No
Louisiana	Calumet La	No
Louisiana	Camardelle's Seafood & Bait	No
Louisiana	Cameron Airstrip	No
Louisiana	Cameron Parish Boat Launch	No
Louisiana	Cameron Pilots Dock	No
Louisiana	Cameron Seafood Proc Fish House Wharf	No
Louisiana	Cameron Shore Base	No
Louisiana	Canal Barge Company Inc	No
Louisiana	Canal Street Excursion Vessel Wharf	No
Louisiana	Canal Street Ferry Landing	No
Louisiana	Cane-Air	No
Louisiana	Capital Marine Supp Inc Algiers Flt Moor	No
Louisiana	Capital Marine Supp., Lucy Fleet Mooring	No
Louisiana	Capital Marine Supp., Upper West Bank	No
Louisiana	Capline Pipe Line System, Dock No. 3.	No
Louisiana	Capline Pipe Line System, Dock No. 4.	No
Louisiana	Capline Terminal, Docks	No
Louisiana	Cargill	No
Louisiana	Cargill Deicing Technology	No
Louisiana	Cargill Grain Port Allen	No
Louisiana	Cargill Inc Westwego Elevator Wharf	No
Louisiana	Cargill, Inc. - Nagoc, Reserve Elevator	No
Louisiana	Cargill-Nagoc, Reserve Elevator Wharf	No
Louisiana	Cargill-Nagoc, Reserve Oilseed Wharf	No
Louisiana	Cargo Carriers Reserve Cleaning Wharf	No
Louisiana	Cargo Carriers Terre Haute Landing	No
Louisiana	Cargo Carriers, Port Allen Wharf	No
Louisiana	Cargo Carriers, Reserve Fleet Mooring	No
Louisiana	Carline Marine Landing	No
Louisiana	Carline Plaquemine 204 Fleet	No
Louisiana	Carline's Geismar Fleet, Landing Wharf	No
Louisiana	Carmeuse Lime	No
Louisiana	Carville-White Castle Ferry Landing	No
Louisiana	Castrol, Baton Rouge Plant Wharf	No
Louisiana	Ccs Energy Services	No
Louisiana	Celeste Street Wharf	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Cenex Harvest States Cooperatives	No
Louisiana	Centerville La	No
Louisiana	Central Industries	No
Louisiana	Ceres Gulf	No
Louisiana	Cf Indust., Donaldsonville Area Barge	No
Louisiana	Cf Indust., Donaldsonville Barge Wharf	No
Louisiana	Cf Indust., Donaldsonville Ship Wharf	No
Louisiana	Cgb Marine Buoys M-134	No
Louisiana	Cgb Marine Svc. At 164, Repair Wharf	No
Louisiana	Cgb Marine Svc. Gulf, Repair Wharves	No
Louisiana	Cgb Marine Svc. Gulf, Upper West Bank	No
Louisiana	Chalmette Ferry East Bank Landing	No
Louisiana	Chalmette National Monument Dock	No
Louisiana	Chalmette Refining Llc	No
Louisiana	Chalmette Slip Dock No 1 And No 2	No
Louisiana	Channel Shipyard Wharf	No
Louisiana	Charenton Canal & Pan Am Oil Co	No
Louisiana	Charlida Boat Shed	No
Louisiana	Chauvin Fish Dock	No
Louisiana	Chef Harbor	No
Louisiana	Chemical Co., Port Allen Terminal Wharf	No
Louisiana	Chenier Bait Shop Marina	No
Louisiana	Cheniere Energy Partners, L.P.	No
Louisiana	Chet Morrison Contractors Inc	No
Louisiana	Chevron Fourchon	No
Louisiana	Chevron Intracoastal	No
Louisiana	Chevron North America Expl & Prod Co.	No
Louisiana	Chevron Oronite	No
Louisiana	Chevron Phillips Chem. Co., St. James	No
Louisiana	Chevron Pipe Line Co.	No
Louisiana	Chevron Place	No
Louisiana	Chevron Southpass Tank Battery W-2	No
Louisiana	Chevron Usa Inc	No
Louisiana	Chevron Usa Production Company	No
Louisiana	Childrens Hospital	No
Louisiana	Chitimacha Air Park	No
Louisiana	Choupique Bayou Boat Ramp	No
Louisiana	Cigar's Marina	No
Louisiana	Cii Carbon	No
Louisiana	Cii-Carbon, Gramercy Plant, Coke Dock	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	City Of Kenner Landing	No
Louisiana	City Of Westwego Landing	No
Louisiana	Cms Truckline Lng Co Wharf	No
Louisiana	Coastal Cargo Co.	No
Louisiana	Coastal Equipment Co.	No
Louisiana	Coastline Contractors Wharf	No
Louisiana	Co-Co Marina	No
Louisiana	Cocodrie Clubhouse Boat Launch	No
Louisiana	Columbia Gas Transmission	No
Louisiana	Compressor Station 524	No
Louisiana	Conoco Inc	No
Louisiana	Conoco Inc. Venice	No
Louisiana	Continental Construction Co Inc	No
Louisiana	Cooper Sunshine	No
Louisiana	Cooper Darrow Mile 180	No
Louisiana	Cooper/T. Smith Stevedoring, Mile 175	No
Louisiana	Cosmar Styrene Plant	No
Louisiana	Crab Lady Landing	No
Louisiana	Crain Brothers	No
Louisiana	Crain Brothers Ranch Corp. Landing	No
Louisiana	Creole	No
Louisiana	Crescent City Connection	No
Louisiana	Crescent Ship Service	No
Louisiana	Crescent Ship Svc, Grandview Anchorage	No
Louisiana	Crescent Ship Svc, Reserve Landing	No
Louisiana	Crescent Ship Svc., Burnside Anchorage	No
Louisiana	Crescent Towing & Salvage	No
Louisiana	Crescent Towing Co Inc	No
Louisiana	Crewboats Inc	No
Louisiana	Crompton Corp Harvey Dock	No
Louisiana	Crosby Tugs, L.L.C.	No
Louisiana	Cross Rigolets	No
Louisiana	Crosstex Processing Services, Llc	No
Louisiana	Crowley Marine Services	No
Louisiana	Crown Vantage Water Intake	No
Louisiana	Cypremort Point State Park Boat Ramp	No
Louisiana	Cypress Cove Marina	No
Louisiana	Cytex Industries Inc	No
Louisiana	D & C Seafood Dock	No
Louisiana	D&L Salvage L.L.C.	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Dalcour Waterworks Dist	No
Louisiana	Damien	No
Louisiana	Davant La	No
Louisiana	Davis Seafood And Launch	No
Louisiana	Davis Seafood Wharf	No
Louisiana	Daybrook Fisheries	No
Louisiana	De Pope's Boat Launch	No
Louisiana	Dean Blanchard Seafood	No
Louisiana	Dean Equipment, Inc.	No
Louisiana	Dean's Free Boat Launch	No
Louisiana	Deepwater Port Services, Inc.	No
Louisiana	Degussa Engineered Carbons L.P.	No
Louisiana	Dehyco Wharf	No
Louisiana	Delacroix Corp. Dock	No
Louisiana	Delacroix Island & Oak River	No
Louisiana	Delmar Systems, Inc.	No
Louisiana	Delta Bulk Terminal, Grain Transfer	No
Louisiana	Delta Coatings, Inc.	No
Louisiana	Delta Kinder Morgan Terminal Services	No
Louisiana	Delta Marina	No
Louisiana	Delta Terminal Services	No
Louisiana	Delta Towing Service	No
Louisiana	Delta Well Surveyors Dock	No
Louisiana	Deltech Corp., Baton Rouge Works Wharf	No
Louisiana	Denet Towing Service	No
Louisiana	Devall Diesel Svc. Dock And Fleet Svc.	No
Louisiana	Devall Fleeting Service Calcasieu River	No
Louisiana	Devon Energy Production Corp.	No
Louisiana	Diamond B (Bank Unloading)	No
Louisiana	Discount Bait Boat Launch	No
Louisiana	Dixie Offshore Transportation Inc	No
Louisiana	Domino Sugar	No
Louisiana	Donaldsonville Boat Ramp	No
Louisiana	Donaldsonville Fleet & Barge Svc. Inc.	No
Louisiana	Don's Launch	No
Louisiana	Double H Ranch	No
Louisiana	Douglas Marine Service	No
Louisiana	Dow Chem. Usa, Plaquemine Dock No. 1	No
Louisiana	Dow Chem. Usa, Plaquemine Dock No. 2	No
Louisiana	Dow Usa, La Division	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Dowell Schlumberger Wharf	No
Louisiana	Dredge Area	No
Louisiana	Dredge Area Boothville	No
Louisiana	Dresser Magcobar	No
Louisiana	Drilling Rig	No
Louisiana	Dugas Landing	No
Louisiana	Dugas Landing Docks	No
Louisiana	Dugas Oil	No
Louisiana	Dularge Sporting Goods Inc.	No
Louisiana	Dupont Dow Elastomers, Pontchartrain Wks	No
Louisiana	Dupont Intake	No
Louisiana	Dynamic Industries	No
Louisiana	Dynamic Offshore Contractors	No
Louisiana	Dyson Contractors Inc	No
Louisiana	E N Bisso And Son Inc Dock	No
Louisiana	E Pearl River	No
Louisiana	E.I. Du Pont De Nemours & Co., Burnside	No
Louisiana	East & West Calumet Lock & Dam	No
Louisiana	East Field	No
Louisiana	East Hackberry Oil & Gas Field Boat Ramp	No
Louisiana	East Jefferson Ww Dist No 1	No
Louisiana	East Main Boat Launch	No
Louisiana	Economy Boat Store Wharf	No
Louisiana	Ecott, West Pointe A La Hache Wharf	No
Louisiana	Eddie Pinto's Boat Launch	No
Louisiana	Edgard Ferry Landing	No
Louisiana	Edgen Murray Pipe	No
Louisiana	Edison Chouest Offshore	No
Louisiana	Ed's Boat Launch	No
Louisiana	Elmwood Drydock & Repair	No
Louisiana	Elmwood Marine & Mckinney Fleet & Barge	No
Louisiana	Elmwood Marine Services	No
Louisiana	Elmwood Marine Services Inc	No
Louisiana	Elmwood Marine Services, Convent Repair	No
Louisiana	Elmwood Marine Svcs. Repair Whf	No
Louisiana	Empire Anchorage	No
Louisiana	Empire Floodgate	No
Louisiana	Empire Shipyard	No
Louisiana	End Of The World Marina	No
Louisiana	Energy Logistics	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Energy Partners	No
Louisiana	Entergy La 9 Mile Point Steam Elec Stn	No
Louisiana	Entergy Louisiana, Little Gypsy Station	No
Louisiana	Entergy Louisiana, Waterford Steam Elec.	No
Louisiana	Entergy Montz Obstruction Intake	No
Louisiana	Entergy Waterford Steam Plant	No
Louisiana	Enviromental Treatment Team	No
Louisiana	Equilon Enterprises Llc Wharf	No
Louisiana	Equilon Pipeline Co., Dock No. 1.	No
Louisiana	Equilon Pipeline Co., Dock No. 2.	No
Louisiana	Equilon Pipeline Co., St. James Dock 1	No
Louisiana	Equilon Pipeline Co., St. James Dock 2	No
Louisiana	Equilon Pipeline Co., St. James Docks	No
Louisiana	Era	No
Louisiana	Era Helicopters Cameron Base	No
Louisiana	Era Helicopters Fourchon Helibase	No
Louisiana	Era Helicopters Venice Base	No
Louisiana	Erato Street Wharf	No
Louisiana	Ergon Baton Rouge, Baton Rouge Wharf	No
Louisiana	Ergon-St. James, Crude Oil Term. Wharf	No
Louisiana	Esplanade Avenue Wharf	No
Louisiana	Evans Industries Inc North Yard Wharf	No
Louisiana	Evans Industries Inc Main Wharf	No
Louisiana	Evergreen	No
Louisiana	Evergreen Venice	No
Louisiana	Expert Riser Solutions, Llc	No
Louisiana	Express Weld, Llc	No
Louisiana	Exxon	No
Louisiana	Exxon Company Usa	No
Louisiana	Exxon Mobil Company	No
Louisiana	Exxon Mobil Refining & Supply Co.	No
Louisiana	Exxonmobil Corp.	No
Louisiana	Fab-Con Mooring Wharf	No
Louisiana	Falco Lime Ellender Chemical Dock	No
Louisiana	False River Rgnl	No
Louisiana	Fathom 29 Hapc	No
Louisiana	Ferry	No
Louisiana	First Street Wharf	No
Louisiana	Fish Dock Hopedale	No
Louisiana	Fish Dock Houma	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Fish Dock Montegut	No
Louisiana	Fish Dock Pointe A La Hache	No
Louisiana	Fish Dock Violet	No
Louisiana	Fish Dock Westwego	No
Louisiana	Fish Dock Yscloskey	No
Louisiana	Fish Dock Cameron	No
Louisiana	Fish Dock Lafitte	No
Louisiana	Fish Operators Plaquemine La	No
Louisiana	Floating M S Rig	No
Louisiana	Florida Avenue Wharf	No
Louisiana	Formosa Plastics Corp., B. Rouge Plant	No
Louisiana	Formosa Plastics Corp., Baton Rouge N.	No
Louisiana	Fort Jackson Boat Launch	No
Louisiana	Fort Jackson La	No
Louisiana	Fort Pike Commemorative Area	No
Louisiana	Fountain Seafood Co Slip	No
Louisiana	Fourchon Base	No
Louisiana	Fourchon Heavy Lift	No
Louisiana	Fourchon Seafood, Inc.	No
Louisiana	France Road Terminal Berths 1, 4 And 5	No
Louisiana	Francis Drilling Fluids, Ltd.	No
Louisiana	Frank Campo's Marina	No
Louisiana	Franklin Canal Bridge Site	No
Louisiana	Franklin Foundation Hospital	No
Louisiana	Franklin Launch	No
Louisiana	Franklin Packing Co	No
Louisiana	Fred's Boat Launch	No
Louisiana	Fred's Lounge/Launch	No
Louisiana	Freeport-Mcmoran Sulphur Co.	No
Louisiana	Frees Const Franklin	No
Louisiana	French's Welding And Maintenance Svc	No
Louisiana	Fresh Water Bayou	No
Louisiana	Freshwater Bayou Lock & Dam	No
Louisiana	Fuel And Marine Marketing Llc	No
Louisiana	Fugro Geoservices Inc	No
Louisiana	G & T Crane Co Inc Harvey Canal Wharf	No
Louisiana	Galvez Street Wharf	No
Louisiana	Geismar La	No
Louisiana	General Anchorage	No
Louisiana	General Electric Co., Geismar Wharf	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	General Marine Leasing Inc	No
Louisiana	Georgia Gulf Chemicals & Vinyls	No
Louisiana	Getco Mile 171 And Mile 172 Dry Transf.	No
Louisiana	Geyer Bank Hapc	No
Louisiana	Glen Lege Construction	No
Louisiana	Glisson Launch	No
Louisiana	Gmc&W Fabricators Inc Wharf	No
Louisiana	Gnots-Reserve	No
Louisiana	Gold King Production Co. Leeville Wharf	No
Louisiana	Gom Boat Launch	No
Louisiana	Governor Nicholls Street Wharf	No
Louisiana	Gramercy Waterworks	No
Louisiana	Grand Isle Marine Lab	No
Louisiana	Grand Isle Shipyard Fourchon Wharf	No
Louisiana	Grand Isle Shipyard Venice Wharf	No
Louisiana	Grand Isle Shipyd Grand Isle Yard Wharf	No
Louisiana	Grand View Lodge	No
Louisiana	Greater Baton Rouge Port	No
Louisiana	Greater Baton Rouge Port Comm., Dock 1	No
Louisiana	Greater Baton Rouge Port Comm., Dock 2	No
Louisiana	Greater Baton Rouge Port Commission	No
Louisiana	Greater Lafourche Port	No
Louisiana	Greater Lafourche Port Commission	No
Louisiana	Green Hill Compressors	No
Louisiana	Gretna Waterworks	No
Louisiana	Gulf Coast Materials	No
Louisiana	Gulf Crews Wharf	No
Louisiana	Gulf Intracoastal Michoud Fleet	No
Louisiana	Gulf Offshore Logistics, Llc (Gol Docks)	No
Louisiana	Gulf Offshore Serv Corp Boothville La	No
Louisiana	Gulf South	No
Louisiana	Gulf Stream Marina	No
Louisiana	Gulf Sturgeon Critical Habitat	No
Louisiana	Gulfintracoastal West Closure Complex	No
Louisiana	H & A Seafood Wharf	No
Louisiana	Hackberry Seafood Dock	No
Louisiana	Halliburton Baroid Energy Services, Inc	No
Louisiana	Halliburton Energy Services	No
Louisiana	Happy Jack Marina	No
Louisiana	Harbor Police (Third Street) Wharf	No



<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Harbor Towing & Fleeting Inc	No
Louisiana	Harless Ellender Yard	No
Louisiana	Harmony Street Wharf	No
Louisiana	Harry P Williams Memorial	No
Louisiana	Harvey Canal Wharf	No
Louisiana	Harvey Gulf International Marine Inc.	No
Louisiana	Harvey Lock	No
Louisiana	Hassie Hunt, Dixon Bay	No
Louisiana	Hebert's Marina	No
Louisiana	Henry Clay Avenue Wharf	No
Louisiana	Henry McCall, Cameron Offshore Dock	No
Louisiana	Herbert Shell Baldwin	No
Louisiana	Hero Lands Co.	No
Louisiana	Hexion Specialty Chemicals, Norco	No
Louisiana	Higgins Seafood Wharf	No
Louisiana	High Ridge Marina	No
Louisiana	Hilcorp Energy Corp.	No
Louisiana	Hippolyte Boat Launch	No
Louisiana	Hog Isl Gully/Sabine Wildlife Ref B Ramp	No
Louisiana	Holly Beach	No
Louisiana	Holnam, Baton Rouge Wharf	No
Louisiana	Hope Dale La	No
Louisiana	Hope Services, Inc	No
Louisiana	Hopedale Marina And Convenience Store	No
Louisiana	Hornbeck Offshore Services (Hos), Inc.	No
Louisiana	Houma Industries Inc Harvey Canal	No
Louisiana	Houma Industries, Harvey Canal Dock.	No
Louisiana	Houma Industries, Harvey Canal Mooring.	No
Louisiana	Houma Terrebonne	No
Louisiana	Huey L. Cheramie, Inc.	No
Louisiana	Humble Oil Wharf	No
Louisiana	Hungry Bend Marine Harvey Wharf	No
Louisiana	Ic Railmarine, Terminal Wharf	No
Louisiana	Icy Seafood Ii, Intracoastal City Dock	No
Louisiana	Imc Phosphate M.P., Taft Plant Wharf	No
Louisiana	Imc Phosphates Mp, Faustina	No
Louisiana	Imperial Sugar Co., Docks	No
Louisiana	Imperial Sugar Co., Molasses Dock	No
Louisiana	Imperial Sugar Co., Refined Sugar Dock	No
Louisiana	Industrial Pump Sales And Repair Dock	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Ingram Capital Fleet Landing	No
Louisiana	Inland River Marine Terminal	No
Louisiana	Inner Harbor Navigation Canal Lock	No
Louisiana	Innis Community Health Center	No
Louisiana	Integrity Industries, Venice Wharf	No
Louisiana	Intercontinental Terminals Co.	No
Louisiana	Intermoor, Inc. Fourchon Facility Wharf	No
Louisiana	International Boat Rentals	No
Louisiana	International Marine Terminals	No
Louisiana	International Matex Tank Terminals	No
Louisiana	International Painting Corp.	No
Louisiana	International Painting Corp. Wharf	No
Louisiana	International Rivercenter Excursion	No
Louisiana	International Ship Services	No
Louisiana	International-Matex Tank Terminals	No
Louisiana	Intracoastal City Drydock & Shipbuilding	No
Louisiana	Intracoastal City Public Boat Launch	No
Louisiana	Intracoastal Liquid Mud	No
Louisiana	Intracoastal Park Boat Ramp	No
Louisiana	Intracoastal Seafood Dock	No
Louisiana	Irwin P. Melancon Rec. Boat Launch	No
Louisiana	Island De Jean Charles Marina	No
Louisiana	Ivanhoe Canal	No
Louisiana	J P & Sons Inc Dock	No
Louisiana	J.J.'S Boat Launch	No
Louisiana	Jack Kent	No
Louisiana	Jackson Avenue Ferry Landing	No
Louisiana	Jackson Barracks	No
Louisiana	Jakkula Bank Hapc	No
Louisiana	James S. Henry Estates	No
Louisiana	Jefferson Marine Towing Inc	No
Louisiana	Jefferson Parish Sheriffs Office	No
Louisiana	Jesse B. Hayes Memorial Boat Ramp	No
Louisiana	Jesuits Bend	No
Louisiana	Joe's Landing	No
Louisiana	Joe's Landing Piers	No
Louisiana	John W Stone Oil Distributors	No
Louisiana	John W. Stone Oil Distributor, Paulina	No
Louisiana	John W. Stone Oil Distributors, B. Rouge	No
Louisiana	John W. Stone, Venice Fuel Dock	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Johnson Bayou/Deep Bayou Landing	No
Louisiana	Johnson Bros Corp Harvey Yard Dock	No
Louisiana	Joseph Harbor Launch	No
Louisiana	Josh's Boat Launch	No
Louisiana	Joshua's Marina	No
Louisiana	Jourdan Road Terminal	No
Louisiana	Julia Street Cruise Ship Terminal Wharf	No
Louisiana	Kaiser Aluminum Corp., Bauxite Dock	No
Louisiana	Kaiser Aluminum Corp., Chemical Dock	No
Louisiana	Kanorado Terminals, Corp.	No
Louisiana	Kass Bros Inc Westwego Landing	No
Louisiana	Ken Lee's Dock Piers	No
Louisiana	Kimson Seafood Wharf	No
Louisiana	Kinder Morgan Bulk Terminals, B. Rouge	No
Louisiana	Kinder Morgan Bulk Terminals, Gramercy	No
Louisiana	Kinder Morgan Energy Partners	No
Louisiana	Kinder Morgan, Belle Helene Landing	No
Louisiana	Kinder Morgan, St. Gabriel Terminal	No
Louisiana	King Crabby Seafood Wharf	No
Louisiana	Koch Gathering Systems, Darrow	No
Louisiana	Koch Pipeline Operating, St. James No 1	No
Louisiana	Koch Pipeline Operating, St. James No 2	No
Louisiana	Koch Pipeline Operating, St. James No 5	No
Louisiana	Kody Marine Inc Harvey Canal Wharf	No
Louisiana	Kostmayer Construction Co Inc	No
Louisiana	Kyle & Taylor Wharf	No
Louisiana	L & L Cleaning & Repair Wharf Mile 175	No
Louisiana	L & L Cleaning And Repair, Wharf	No
Louisiana	L & L Marine Transportation Inc	No
Louisiana	L & L Oil And Gas Services Llc	No
Louisiana	L L Turner Shipyard Inc Mooring	No
Louisiana	La - Tex Bail Corp Shop Wharf	No
Louisiana	La Coste Construction Co	No
Louisiana	La Dotd Headquarters	No
Louisiana	La State Police Troop A	No
Louisiana	Lafarge Corp New Orleans Cement Wharf	No
Louisiana	Lafarge North America	No
Louisiana	Lafarge North America, Union Term. Wharf	No
Louisiana	Lafitte Piledriving Co	No
Louisiana	Lake Athanasia & Eloi Bay	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Lake Catherine Marina	No
Louisiana	Lake Charles Carbon Co Wharf	No
Louisiana	Lake Charles Harbor & Terminal District	No
Louisiana	Lake Charles Harbor & Terminal Port	No
Louisiana	Lake Hermitage Marina	No
Louisiana	Lapeyrouse Boat Launch	No
Louisiana	Laplace Anchorage Shiplside	No
Louisiana	Larose Scrap & Salvage Dock	No
Louisiana	Lash Marine Svc Inc	No
Louisiana	Lbc Petro United Terminal	No
Louisiana	Leland Bowman Lock & Dam	No
Louisiana	Liberty Services, Venice Base Wharf	No
Louisiana	Lincoln Beach	No
Louisiana	Little Lake	No
Louisiana	Little Temple Field Via Bayou Perot	No
Louisiana	Little Woods	No
Louisiana	Litton/Avondale Industries	No
Louisiana	Live Oak Landing Strip	No
Louisiana	Liz's Launch	No
Louisiana	Lms Shipmanagement	No
Louisiana	Lone Star Industries, Inc	No
Louisiana	Loop, L.L.C. Port Fourchon Wharf	No
Louisiana	Louis Armstrong New Orleans Intl	No
Louisiana	Louisa Street Wharf	No
Louisiana	Louisiana Avenue Wharves A Thru G	No
Louisiana	Louisiana Black Bear Critical Habitat	No
Louisiana	Louisiana Dock Co Inc	No
Louisiana	Louisiana Dock Co. Fleets	No
Louisiana	Louisiana Dock Co., Armant Repair Wharf	No
Louisiana	Louisiana Generating, Big Cajun No. 2	No
Louisiana	Louisiana Machinery Power Systems Dock	No
Louisiana	Louisiana Resources Co	No
Louisiana	Louisiana Rgnl	No
Louisiana	Louisiana Shrimp & Packing Co.	No
Louisiana	Lower Algiers West Bank Ferry Landing	No
Louisiana	Lower River Ship Services	No
Louisiana	Lsu University Hospital	No
Louisiana	Luhr Bros. (Rock Yard)	No
Louisiana	Luhr Brothers, Baton Rouge Landing	No
Louisiana	Luling Bridge Site	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Lumcon	No
Louisiana	Lutcher Ferry Landing	No
Louisiana	Lutcher Waterworks	No
Louisiana	M.I. Drilling Fluids	No
Louisiana	M.I. Swaco, Bayou Lafourche Wharf.	No
Louisiana	M.I. Swaco, E-Slip Wharf.	No
Louisiana	M.I., L.L.C. Port Fourchon Wharf	No
Louisiana	Magellan Midstream Partners L.P.	No
Louisiana	Maintenance Dredging Inc	No
Louisiana	Mandeville Street Wharf	No
Louisiana	Manilla Village	No
Louisiana	Manning Menard Oil Co Dock	No
Louisiana	Marathon Ashland Petroleum Dock No. 1	No
Louisiana	Marathon Ashland Petroleum Dock No. 2	No
Louisiana	Marathon Ashland Petroleum Dock No. 3	No
Louisiana	Marathon Ashland Petroleum Dock No. 4	No
Louisiana	Marathon Ashland Petroleum Docks	No
Louisiana	Marathon Petroleum Company Llc	No
Louisiana	Marathon Venice	No
Louisiana	Marine Spill Response Corp	No
Louisiana	Marine Systems Inc Harvey Repair Wharf	No
Louisiana	Maritime Oil Recovery, Belle Chasse Dock	No
Louisiana	Market Street Wharf	No
Louisiana	Marlex Terminals Harvey Mooring Pier	No
Louisiana	Martin L & L Fuel & Oil	No
Louisiana	Martin Marietta	No
Louisiana	Martin Marietta, Baton Rouge	No
Louisiana	Martin Midstream Fuel	No
Louisiana	Martin Terminal North Wharves	No
Louisiana	Martin Terminal, Inc. Fuel Wharves	No
Louisiana	Martin-Marietta Aggregates	No
Louisiana	May Bros & Garden City La	No
Louisiana	Mcdonough Marine Service	No
Louisiana	Mcgrail Bank Hapc	No
Louisiana	Mckinney Fleet & Barge Svc. Mile 202	No
Louisiana	Meco Mooring	No
Louisiana	Medicant Island	No
Louisiana	Meridian Resource And Exploration, Llc	No
Louisiana	Metal Building Products Wharf	No
Louisiana	Mi Cameron North Wharf	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Mi Cameron Wharves	No
Louisiana	M-I Llc Harvey Terminal Dock	No
Louisiana	Michoud Canal La	No
Louisiana	Mid Stream Unloading	No
Louisiana	Midship Marine Shipyard Dock	No
Louisiana	Midstream Cameron East	No
Louisiana	Midstream Cameron West	No
Louisiana	Midstream Fuel Service	No
Louisiana	Milan Street Wharf	No
Louisiana	Milchem Inc	No
Louisiana	Mississippi River Levee	No
Louisiana	Mississippi River Recycling	No
Louisiana	Miswaco	No
Louisiana	Mobil Cameron	No
Louisiana	Monkey Island Ferry	No
Louisiana	Monsanto Co.	No
Louisiana	Morgan City Ferry Landing	No
Louisiana	Morgan City Port Allen Rte	No
Louisiana	Morton Salt Co. Weeks Island	No
Louisiana	Moss Lake Boat Ramp	No
Louisiana	Motiva Enterprises, Union Refin. Dock 1	No
Louisiana	Motiva Enterprises, Union Refin. Dock 2	No
Louisiana	Motiva Enterprises, Convent Docks	No
Louisiana	Motiva Enterprises, Norco Berth 2	No
Louisiana	Motiva Enterprises, Norco Berth 4	No
Louisiana	Motiva Enterprises, Norco Berths 1 & 1a	No
Louisiana	Motiva Enterprises, Norco Refining Docks	No
Louisiana	Motto's Basin	No
Louisiana	My Favorite Marina	No
Louisiana	Myrtle Grove La	No
Louisiana	Myrtle Grove Marina	No
Louisiana	Myu	No
Louisiana	N. R. Broussard Landing	No
Louisiana	Nabors Offshore Corp	No
Louisiana	Namasco Corp New Orleans Wharf	No
Louisiana	Napoleon Avenue Wharf	No
Louisiana	Nas Alvin Callender Field Belle Chasse	No
Louisiana	Nasa - Michoud Harbor Dock	No
Louisiana	Nashville Avenue Wharves A, B And C	No
Louisiana	National Gypsum Co Westwego Plant Wharf	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	National Maintenance And Repair	No
Louisiana	Nauga Field	No
Louisiana	Nerby Collins Commercial Fish Marina	No
Louisiana	New Orleans Algiers Waterworks	No
Louisiana	New Orleans Carrollton Waterworks	No
Louisiana	New Orleans Downtown	No
Louisiana	New Orleans Iron Works Inc	No
Louisiana	New Orleans Naval Air Station/Jrb	No
Louisiana	New Orleans Public Svc	No
Louisiana	New Roads Ferry Landing	No
Louisiana	Newman Crane Service	No
Louisiana	Newpark Drilling Fluids	No
Louisiana	Newpark Environmental Services	No
Louisiana	Newpark Resources Wharf	No
Louisiana	Noble Energy	No
Louisiana	Noranda Alumina Llc	No
Louisiana	Noranda Alumina, Llc	No
Louisiana	Norman Mccall	No
Louisiana	North American Salt Co.	No
Louisiana	Northrop Grumman Ship Systems	No
Louisiana	Nrec Power Systems Inc Dock	No
Louisiana	Nustar Energy, St. James Terminal	No
Louisiana	Oak Alley Plantation Passengers	No
Louisiana	Oak Hill Community Park Boat Launch	No
Louisiana	Oakley Shipyard Dock	No
Louisiana	Oaks Canal	No
Louisiana	Occidental Chemical And Koch Industries	No
Louisiana	Occidental Chemical Corp., Convent	No
Louisiana	Ocean Seafood Co Hackberry Wharves	No
Louisiana	Ocean Technical Services Inc	No
Louisiana	Oceaneering International Fourchon	No
Louisiana	Ochsner Medical Institutions	No
Louisiana	Odeco Cocodrie	No
Louisiana	Offshore Cleaning Systems	No
Louisiana	Offshore Rental Corp. DbA Tiger Offshore	No
Louisiana	Offshore Shipyard Wharf	No
Louisiana	Oil And Gas Platform	No
Louisiana	Oil Field Barges Inc.	No
Louisiana	Old Doxey Marine Pier	No
Louisiana	Old River	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Omega Natchiq Belle Chasse Dock	No
Louisiana	Omega Protein	No
Louisiana	Omni	No
Louisiana	Omni Energy Services Corp	No
Louisiana	Orange Street Wharf	No
Louisiana	Orion Refining Corp., Norco Berth 1	No
Louisiana	Orion Refining Corp., Norco Berth 2	No
Louisiana	Orion Refining Corp., Norco Berth 3	No
Louisiana	Orion Refining Corp., Norco Berth 4	No
Louisiana	Orion Refining Corp., Norco Berth 5	No
Louisiana	Ormet Corporation	No
Louisiana	Ormet Primary Alumina Corp., Burnside	No
Louisiana	Orsoud Inc Michoud Canal Mooring	No
Louisiana	Osca Calcium Chloride Plant Wharf	No
Louisiana	Osca Cameron Wharf	No
Louisiana	Osca Venice Dock	No
Louisiana	Otto Candies Llc	No
Louisiana	Oxbow Carbon And Minerals	No
Louisiana	Oyster Lease	No
Louisiana	P&O Ports Louisiana	No
Louisiana	Packard Pipe Terminals Inc	No
Louisiana	Panther Helicopters Inc	No
Louisiana	Pass A Loutre La	No
Louisiana	Pat's Bayouside Marina	No
Louisiana	Patterson Water System	No
Louisiana	Pauline Street Wharf	No
Louisiana	Pendleton Memorial Methodist Hospital	No
Louisiana	Peoples Water Service Company	No
Louisiana	Perry Street Wharf	No
Louisiana	Petrex Inc Dock	No
Louisiana	Petro Com Headquarters	No
Louisiana	Petroleum Fuel & Term. Co., Mt. Airy	No
Louisiana	Petroleum Fuel & Term. Co., Port Allen	No
Louisiana	Petroleum Helicopters Cameron	No
Louisiana	Petroleum Helicopters-Intracoastal City	No
Louisiana	Phi Fourchon Base	No
Louisiana	Phi Harahan	No
Louisiana	Phillips 66 Co.	No
Louisiana	Pilottown Anchorage	No
Louisiana	Pioneer Americas, St. Gabriel Wharf	No



<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Piping Plover Critical Habitat	No
Louisiana	Pip's Launch	No
Louisiana	Placid Refining Llc	No
Louisiana	Placid Refining, Barge Wharf.	No
Louisiana	Placid Refining, Tanker Wharf.	No
Louisiana	Plains All American Pipeline Corp	No
Louisiana	Plains Marketing	No
Louisiana	Plains Marketing Wharf	No
Louisiana	Plains Pipeline	No
Louisiana	Plaisance Dragline And Dredging Co.	No
Louisiana	Plantation Pipeline	No
Louisiana	Plaquemine - Plaquemine Pt Ferry Landing	No
Louisiana	Plaquemine Parish Commission Council	No
Louisiana	Plaquemine Parish Ferry Repair Dock	No
Louisiana	Plaquemine Parish Jump Basin	No
Louisiana	Plaquemine Parish Venice Boat Harbor	No
Louisiana	Plaquemine Port Authority Dock	No
Louisiana	Plaquemine Pt Shipyard, Repair & Cln	No
Louisiana	Plaquemine Towing Corp. Mooring	No
Louisiana	Plaquemine Towing Corp., Cleaning Wharf	No
Louisiana	Plaquemine Towing Corp., Repair Wharf	No
Louisiana	Plaquemines Parish Boat Launch	No
Louisiana	Plaquemines Port Marine Spill Response	No
Louisiana	Plumb Isle Pt & Deer Isle Bayou	No
Louisiana	Pmi	No
Louisiana	Point A La Hache Marina Boat Launch	No
Louisiana	Point Aux Chene Marina	No
Louisiana	Point Celeste Anchorage	No
Louisiana	Point Eight Power Inc Dock	No
Louisiana	Pointe A La Hache Ferry Landing	No
Louisiana	Pointe A La Hache W S	No
Louisiana	Pointe Aux Chenes Wildlife Mgt Boat Lnch	No
Louisiana	Pointe Cocodrie Inn	No
Louisiana	Pointe Coupee General Hospital	No
Louisiana	Pointe Coupee Parish Port Dock	No
Louisiana	Poland Avenue Wharf Berths Nos 4 And 5	No
Louisiana	Popeyes	No
Louisiana	Port Aggregates Inc	No
Louisiana	Port Allen Lock & Dam	No
Louisiana	Port Allen Lock Boatyard Wharf	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Port Eads & Micheltree Whf	No
Louisiana	Port Fourchon Marina	No
Louisiana	Port Of New Orleans/ Henry Clay Wharf	No
Louisiana	Port Of South Louisiana	No
Louisiana	Port Of South Louisiana, Globalplex	No
Louisiana	Port Of St. Bernard	No
Louisiana	Port Of West St. Mary	No
Louisiana	Port Operations Center	No
Louisiana	Port Ship Service Inc	No
Louisiana	Port Sulphur Water Dist	No
Louisiana	Poydras St Whrf United Fruit	No
Louisiana	Premier Industries Dock And Slip	No
Louisiana	Premier Industries Venice Wharf	No
Louisiana	Prevost Memorial Hospital	No
Louisiana	Production Management Industries (Pmi)	No
Louisiana	Production Management Structural Sys Inc	No
Louisiana	Progressive Barge Line Inc	No
Louisiana	Psc Oilfield Services	No
Louisiana	Public Boat Ramp	No
Louisiana	Public Marina	No
Louisiana	Public Oyster Area	No
Louisiana	Pure Resources, Lapice Oil	No
Louisiana	Quality Welding & Fabricating Wharf	No
Louisiana	R. E. Roussel Contractors Landing	No
Louisiana	Radcliff Calumet	No
Louisiana	Radcliff Lockport	No
Louisiana	Radcliff Material	No
Louisiana	Rankin Bright Bank Hapc	No
Louisiana	Reagan Equipment Co Dock	No
Louisiana	Reggio Marina	No
Louisiana	Rene Cross Construction	No
Louisiana	Reserve Anchorage (Foreign)	No
Louisiana	Reserve Ferry Landing	No
Louisiana	Retif Oil And Fuel Llc	No
Louisiana	Rezak Sidner Bank Hapc	No
Louisiana	Rhodia, Baton Rouge Wharf	No
Louisiana	River Construction Co	No
Louisiana	River Construction Inc	No
Louisiana	River Parish Hospital	No
Louisiana	River Parishes Co. Mooring	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	River Repair, Landing And Pt Houmas	No
Louisiana	River West Medical Center	No
Louisiana	Riverbend	No
Louisiana	Riverside Marina	No
Louisiana	Robert L Suggs	No
Louisiana	Robin Street Wharf	No
Louisiana	Roosevelt-Crosby Shipyard Wharf Landing	No
Louisiana	Rotorcraft Leasing Co Creole Base	No
Louisiana	Rotorcraft Leasing Co Intracoastal City	No
Louisiana	Roussel Landing (Bank Loading)	No
Louisiana	Rowan Marine Services, Inc.	No
Louisiana	Roy Bailey Construction	No
Louisiana	Roy Bailey Construction Wharves	No
Louisiana	Roy Bailey's Seafood	No
Louisiana	Rsi Group, Inc.	No
Louisiana	S & L Marina	No
Louisiana	S.Fresh Water Bayou	No
Louisiana	S.J. (Blue) Guercio Iii, Contracting	No
Louisiana	Sand Dollar Marina	No
Louisiana	Sandpiper Inn Bait Shop	No
Louisiana	Scarsdale Ferry Landing	No
Louisiana	Schlumberger Services	No
Louisiana	Schlumberger-Dowell	No
Louisiana	Schooner Bayou Control Str	No
Louisiana	Scurlock Oil Bayou Herbert La	No
Louisiana	Scurlock Oil Co	No
Louisiana	Seafood Processors, Inc.	No
Louisiana	Seariver Maritime Wharf	No
Louisiana	Seaway Marine Boat Ramp	No
Louisiana	Semco Fabricators	No
Louisiana	Semco Shipyard Wharf	No
Louisiana	Semi-Private Boat Ramp	No
Louisiana	Semi-Private Marina	No
Louisiana	Sempra Cameron	No
Louisiana	Serigne's Boat Launch	No
Louisiana	Services Offshore Docks	No
Louisiana	Seventh Street Wharf	No
Louisiana	Sharkco Seafood International	No
Louisiana	Shell Central Facilities E Bay Block 24	No
Louisiana	Shell Chemical Company	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Shell Chemical East Site	No
Louisiana	Shell Chemical West Site	No
Louisiana	Shell Chemical, L.P., Geismar Plant	No
Louisiana	Shell Morgan Landing	No
Louisiana	Shell Offshore	No
Louisiana	Shell Oil Exploration And Production Co	No
Louisiana	Shell Oil Natl Gas Term Toca	No
Louisiana	Shell Pipeline Co.	No
Louisiana	Shell Venice Terminal	No
Louisiana	Shintech Louisiana, Llc	No
Louisiana	Ship To Barge Midstreaming	No
Louisiana	Shipside	No
Louisiana	Shipside Avondale	No
Louisiana	Shipside (Lmr Mile 125)	No
Louisiana	Signal Companies Inc	No
Louisiana	Solitude Airstrip	No
Louisiana	Sonnier Banks Hapc	No
Louisiana	South Lafourche Leonard Miller Jr	No
Louisiana	South Louisiana Cement Terminal	No
Louisiana	South Louisiana Sugars Cooperative Dock	No
Louisiana	Southern Gulf	No
Louisiana	Southern Helicopters	No
Louisiana	Southern Natural Gas Co	No
Louisiana	Southern Natural Gas Company	No
Louisiana	Southern Scrap Material Co Llc	No
Louisiana	Southern Scrap Xpress Recycling Wharf	No
Louisiana	Southern Seaplane	No
Louisiana	Southport Of Houma Harvey Canal	No
Louisiana	Spicer Bait & Tackle	No
Louisiana	Spicers Bait And Tackle Wharf	No
Louisiana	Sportsman's Paradise	No
Louisiana	St Bernard Parish Waterworks	No
Louisiana	St Charles	No
Louisiana	St Charles Water Dist No 1 Eb	No
Louisiana	St Charles Water Dist No 2 Wb	No
Louisiana	St Elizabeth Hospital	No
Louisiana	St Francisville Paper Co	No
Louisiana	St James	No
Louisiana	St James Water Dist No 1	No
Louisiana	St James Water Dist No 2	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	St John The Baptist Parish	No
Louisiana	St John Water Dist No 1	No
Louisiana	St John Water Dist No 2	No
Louisiana	St. Bernard Port	No
Louisiana	St. Francisville Ferry Landings	No
Louisiana	St. James Stevedoring Co. & Weber Marine	No
Louisiana	St. James Stevedoring (Lower) Buoys	No
Louisiana	St. John Fleeting, Repair Wharves	No
Louisiana	St. Jude Hump Boat Launch	No
Louisiana	St. Mary Seafood Wharf	No
Louisiana	St. Mary Sheriff	No
Louisiana	St. Maurice Avenue Wharf	No
Louisiana	St. Vincent Gulf Shrimp Co., Inc.	No
Louisiana	St. Vincent Seafood, Inc.	No
Louisiana	Stake Island Bayou	No
Louisiana	Stan Blast Abrasives	No
Louisiana	State Highways 27 & 82 Ferry	No
Louisiana	State Of La, Carville-White Castle	No
Louisiana	State Of La, Plaquemine Ferry	No
Louisiana	State Of La, Plaquemine Point Ferry	No
Louisiana	State Of Louisiana	No
Louisiana	Station 44	No
Louisiana	Stepper Towing Inc Harvey Canal Wharf	No
Louisiana	Steve Tomeny Charters Dock	No
Louisiana	Stevedoring Services Of America	No
Louisiana	Stewart & Stevenson Services Inc	No
Louisiana	Stewart Construction Co Inc	No
Louisiana	Stockpile Yard	No
Louisiana	Stolthaven New Orleans	No
Louisiana	Sunland Construction Inc	No
Louisiana	Sunshine Marina	No
Louisiana	Superior Diving Co Algiers Canal Wharf	No
Louisiana	Superior Shipyard & Fabrication, Inc.	No
Louisiana	Swift Energy Company	No
Louisiana	T L James Co Inc	No
Louisiana	T. T. Barge Cleaning, Mile 183, Inc.	No
Louisiana	T.T. Barge Cleaning Inc	No
Louisiana	T.T. Barge Coatings Inc	No
Louisiana	T.T. Barge Service Mile 125	No
Louisiana	Talens Marine & Fuel	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Talens Marine & Fuel Wharf	No
Louisiana	Targa Resources, Inc.	No
Louisiana	Tate And Lyle North American Sugars Inc	No
Louisiana	Technip	No
Louisiana	Teco Bulk Terminal	No
Louisiana	Tembec	No
Louisiana	Tenneco-Cocodrie	No
Louisiana	Terrebonne Bay & End Of Proj	No
Louisiana	Terrebonne Sheriff	No
Louisiana	Terry's Resource Management, Llc	No
Louisiana	Tesoro Marine Services	No
Louisiana	Tetra Technologies, Inc.	No
Louisiana	Texaco Usa Harvey Canal Dock	No
Louisiana	Textron Marine And Land Systems Wharf	No
Louisiana	Thalia Street Wharf	No
Louisiana	The Louisiana Fruit Co.	No
Louisiana	The Mosaic Co., Uncle Sam Plant Dock	No
Louisiana	The Mosaic Company, Faustina Wharf	No
Louisiana	The Seafood Shed Golden Meadow	No
Louisiana	The Seafood Shed Leeville	No
Louisiana	Ti Seafood Wharves	No
Louisiana	Tidewater Docks Boat Launch	No
Louisiana	Tidewater Docks, Inc.	No
Louisiana	Tigress Environmental Llc	No
Louisiana	T-Irv's Marina	No
Louisiana	Tj Seafood, East Wharf	No
Louisiana	Tj Seafood, West Wharf	No
Louisiana	Tom's Welding Service Wharf	No
Louisiana	Total Marine Services Of Jefferson Inc	No
Louisiana	Touro Infirmary	No
Louisiana	Transcoastal Marine Systems Inc	No
Louisiana	Transmontaigne Terminalling Inc	No
Louisiana	Triad Nitrogen Wharf	No
Louisiana	Triche Field	No
Louisiana	Trimen Inc Bulkhead	No
Louisiana	Trinity Field Services	No
Louisiana	Trinity Marine Products, Plant No. 48	No
Louisiana	Trosclair Canning Co Wharf	No
Louisiana	Trusco Wharf	No
Louisiana	Trussco, Inc	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Trussco, Intracoastal City Dock	No
Louisiana	Tt Barge Services Wharves	No
Louisiana	Tt Barge Services, Mile 237 Lower Wharf	No
Louisiana	Tt Barge Services, Upper Wharf	No
Louisiana	Tulane Medical Center	No
Louisiana	Tunica La	No
Louisiana	Twin Brothers Marine, L.L.C.	No
Louisiana	U.S. Army Corps Of Engineers	No
Louisiana	U.S. Coast Guard Group New Orleans Wharf	No
Louisiana	U.S. Fish And Wildlife Service	No
Louisiana	U.S. Liquids Of Louisiana	No
Louisiana	Union Carbide Corp., Taft Pl. Dock 1	No
Louisiana	Union Carbide Corp., Taft Pl. Dock 2 & 3	No
Louisiana	Union Carbide Corp., Taft Pl. Dock 4	No
Louisiana	Union Carbide Corp., Taft Pl. Docks	No
Louisiana	Union Texas Pet Div Allied Chem Corp	No
Louisiana	United States Government	No
Louisiana	United Tugs Inc Algiers Canal Wharf	No
Louisiana	Universal Maritime Service Corp.	No
Louisiana	Universal Services And Associates Inc	No
Louisiana	Upper St. Rose Fleeting Mooring	No
Louisiana	Upper St. Rose Repair Wharf	No
Louisiana	Us Filter Recovery Services	No
Louisiana	Us Liquids Of Louisiana	No
Louisiana	Uscg Air Station New Orleans	No
Louisiana	Uscg Ant Dulac	No
Louisiana	Uscg Base New Orleans	No
Louisiana	Uscg Sector New Orleans Hq	No
Louisiana	Uscg Station	No
Louisiana	Uscg Station Grand Isle	No
Louisiana	Uscg Station Venice	No
Louisiana	Vacherie Ferry Landing	No
Louisiana	Valero Asphalt Products	No
Louisiana	Valero Energy Corp.	No
Louisiana	Valero Refining, Norco Refinery	No
Louisiana	Venetian Isles Marina	No
Louisiana	Venice Anchorage	No
Louisiana	Venice Boat Harbor	No
Louisiana	Venice Fish And Shrimp	No
Louisiana	Venice Marina	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Louisiana	Venice Seafood Exchange	No
Louisiana	Venture Transport Logistics, L.L.C.	No
Louisiana	Vermilion Gulf Seafood	No
Louisiana	Versabar Inc Belle Chasse Terminal Dock	No
Louisiana	Violet Dock Port Inc Berthing Facility	No
Louisiana	Volks Constructors, Geismar Landing	No
Louisiana	Vopak Terminal Westwego Inc	No
Louisiana	Vulcan / Ica Distribution Co	No
Louisiana	Walker Road Boat Launch	No
Louisiana	Washington Avenue Wharf	No
Louisiana	Waterford 3	No
Louisiana	Watts Boat Launch	No
Louisiana	Wayne Estay Shrimp Co.	No
Louisiana	Weber Marine Wharf, Dry Bulk Transf.	No
Louisiana	Weber Marine, Burnside Lower Fleet Moor.	No
Louisiana	Weber Marine, Burnside Wharf & Upper Flt	No
Louisiana	Weber Marine, Reserve Landing	No
Louisiana	Weeks Bayou & Bayou Patout	No
Louisiana	West Baton Rouge Tourist Commission	No
Louisiana	West Feliciana Parish Hospital	No
Louisiana	West Feliciana Sheriff's Office	No
Louisiana	West Jefferson Medical Center	No
Louisiana	West Jefferson Ww Dist No 2	No
Louisiana	West Point A La Hache Marina	No
Louisiana	West Pointe A La Hache Ferry Landing	No
Louisiana	Western Towing 186 Fleet	No
Louisiana	Western Towing 210 Fleet. ('The Chute')	No
Louisiana	Western Towing 225 Fleet	No
Louisiana	Western Towing 231 Fleet	No
Louisiana	Western Towing Co Fleet Mooring	No
Louisiana	Westwego Waterworks	No
Louisiana	White Castle - Carville Ferry Landing	No
Louisiana	William Olefins Llc	No
Louisiana	Williams Energy Partners	No
Louisiana	Willow Glen Power Plant	No
Louisiana	Willow Glen Power Plant Wharf	No
Louisiana	Wood Resources Corp	No
Louisiana	Yellow Cotton Marina	No
Louisiana	Zen-Noh Grain Corp. Wharf	No
Mississippi	American Legion Launch Reef	No



<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Mississippi	American Legion Pier Reef	No
Mississippi	Archaeological Site	No
Mississippi	Artificial Reef: Cat Island	No
Mississippi	Artificial Reef: Fh-10	No
Mississippi	Artificial Reef: Fh-14	No
Mississippi	Artificial Reef: Fh-3	No
Mississippi	Artificial Reef: Fh-4	No
Mississippi	Artificial Reef: Fh-5	No
Mississippi	Artificial Reef: Fh-8	No
Mississippi	Artificial Reef: Fh-9/11	No
Mississippi	Back Bay Fishing Camp	No
Mississippi	Bailey House	No
Mississippi	Barq, E., Pop Factory	No
Mississippi	Bay Marina	No
Mississippi	Bay St. Louis K.O.A. Campground	No
Mississippi	Bayou Caddy Ramp	No
Mississippi	Bayou Lacroix Boat Ramp	No
Mississippi	Bayou Lacroix Marina	No
Mississippi	Beach	No
Mississippi	Beach Boulevard Historic District	No
Mississippi	Beauvoir	No
Mississippi	Bellefontaine Reef	No
Mississippi	Bertuccini House And Barbershop	No
Mississippi	Biloxi Bay Boat Ramp	No
Mississippi	Biloxi Beach Campground	No
Mississippi	Biloxi Boat Ramp	No
Mississippi	Biloxi Fishing Piers	No
Mississippi	Biloxi Garden Center	No
Mississippi	Biloxi Harbor Reef	No
Mississippi	Biloxi Lighthouse	No
Mississippi	Biloxi Yacht Club	No
Mississippi	Biloxi's Tivoli Hotel	No
Mississippi	Boat Ramp	No
Mississippi	Bodden, Capt. Willie, House	No
Mississippi	Bond House	No
Mississippi	Bordage Fishing Camp	No
Mississippi	Brady's Fishing Camp	No
Mississippi	Brash, Anna C., House	No
Mississippi	Brielmaier House	No
Mississippi	Brittany Ave Boat Ramp	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Mississippi	Broadwater Harbor Reef	No
Mississippi	Broadwater Marina	No
Mississippi	Brunet-Fourchy House	No
Mississippi	Building At 242 St. Charles Street	No
Mississippi	Carter--Callaway House	No
Mississippi	Cedar Point Boat Ramp	No
Mississippi	Cedar Point Ramp	No
Mississippi	Church Of The Redeemer	No
Mississippi	Clark, Clare T., House	No
Mississippi	Clemens House	No
Mississippi	Clinton, Capt. F. L., House	No
Mississippi	Coast Guard Station Gulfport	No
Mississippi	Coast Guard Station Pascagoula	No
Mississippi	Cochran--Cassanova House	No
Mississippi	Colle Company Housing	No
Mississippi	Colle, Capt. Herman H., Sr., House	No
Mississippi	Cool Point Resort & Marina	No
Mississippi	Cottage By The Sea Tavern	No
Mississippi	Courthouse Road Pier	No
Mississippi	Courthouse Road Pier Reef	No
Mississippi	Cudabac--Gantt House	No
Mississippi	Dantzler, G. B., House	No
Mississippi	David Fishing Camp	No
Mississippi	Deer Island North Reef	No
Mississippi	Dejean House	No
Mississippi	Delcastle	No
Mississippi	Diamondhead Bay, St Louis	No
Mississippi	Diamondhead Marina	No
Mississippi	D'iberville Bridge Reef	No
Mississippi	D'iberville Marina Reef	No
Mississippi	Dunbar St Pier	No
Mississippi	Elmwood Manor	No
Mississippi	Emerald Street Reef	No
Mississippi	Ever Breeze Park Campground	No
Mississippi	Fairview Campground	No
Mississippi	Farnsworth, R. A., Summer House	No
Mississippi	Ferry	No
Mississippi	Fisherman's Cottage	No
Mississippi	Flat Branch Campground	No
Mississippi	Ford, Mayor Ebb, House	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Mississippi	Fort Bayou Bridge Ramp & Pier	No
Mississippi	Fort Bayou Reef	No
Mississippi	Fort Massachusetts	No
Mississippi	Fountain Street Pier	No
Mississippi	Fournier Ave. Reef	No
Mississippi	French Warehouse Site	No
Mississippi	Frentz, George, House	No
Mississippi	Front Street Historic District	No
Mississippi	Gautier, Adam, House	No
Mississippi	Gautier, Eugene, House	No
Mississippi	Gautier, Walter, House	No
Mississippi	Gaywood Campground & Rv Park	No
Mississippi	Gillis House	No
Mississippi	Glen Oak--Kimbrough House	No
Mississippi	Goat Island Reef	No
Mississippi	Graveline Bayou Boat Ramp	No
Mississippi	Griffin House	No
Mississippi	Gulf Coast Center For The Arts	No
Mississippi	Gulf Park Estates Boat Ramp	No
Mississippi	Gulf Park Estates Fishing Pier	No
Mississippi	Gulf Park Estates Pier Reef	No
Mississippi	Gulf Park Estates Reef	No
Mississippi	Gulfpark, Ocean Springs	No
Mississippi	Gulfport Lake Boat Ramp	No
Mississippi	Gulfport Yacht Club	No
Mississippi	Gulfport-Biloxi Regional	No
Mississippi	Halstead Place	No
Mississippi	Hancock County Beach	No
Mississippi	Hansen--Dickey House	No
Mississippi	Harbor Pointe Marina	No
Mississippi	Harbor Square Historic District	No
Mississippi	Henderson Point Boat Ramp	No
Mississippi	Hermann House	No
Mississippi	Herrick, Lemuel D., House	No
Mississippi	Hewes Building	No
Mississippi	House At 1112 Bowen Avenue	No
Mississippi	House At 121 W. Water Street	No
Mississippi	House At 1410 Bowen Avenue	No
Mississippi	House At 407 East Howard Avenue	No
Mississippi	Hughes, William, House	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Mississippi	Hull, Edgar W., House	No
Mississippi	Hwy 57 Ramp	No
Mississippi	Hwy 63 Boat Ramp	No
Mississippi	I-10 Boat Ramp	No
Mississippi	I-110 Boat Ramp & Fishing Pier	No
Mississippi	Indian Springs Historic District	No
Mississippi	James Hill Park Fishing Pier	No
Mississippi	Japonica Drive Reef	No
Mississippi	Jimmy Rutherford Pier	No
Mississippi	Joe Thornton Hull Reef	No
Mississippi	John's Bayou Marina	No
Mississippi	Katrina Key Reef	No
Mississippi	Keelser Afb, Biloxi	No
Mississippi	Keesler Air Force Base Campground	No
Mississippi	Keesler Air Force Base Marina	No
Mississippi	Keesler Harbor Reef	No
Mississippi	Keesler Rubble Reef	No
Mississippi	Kelly Ave. Reef	No
Mississippi	Keys, Thomas Isaac, House	No
Mississippi	Kinne, Georgia P., House	No
Mississippi	Krebs, Agnes V., House	No
Mississippi	Krebs, James, House	No
Mississippi	Krebsville Historic District	No
Mississippi	Kuhn Street Pier Reef	No
Mississippi	Lafrance Fish Camp/Marina	No
Mississippi	Lafrance Fishing Camp	No
Mississippi	Lakeview Fishing Camp	No
Mississippi	Lang Ave. Reef	No
Mississippi	Legacy Towers Reef	No
Mississippi	Levin, Leonard, House	No
Mississippi	Lewis, Col. Alfred E., House	No
Mississippi	Little Joe Fishing Camp	No
Mississippi	Liveoak Fishing Camp	No
Mississippi	Long Beach East Reef	No
Mississippi	Long Beach Harbor Jetty Reef	No
Mississippi	Long Beach Harbor Pier Reef	No
Mississippi	Louisville And Nashville Railroad Depot	No
Mississippi	Lover's Lane Historic District	No
Mississippi	Lower Rines Ramp Pas Wma	No
Mississippi	Mac's Fishing Camp	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Mississippi	Magnolia Hotel	No
Mississippi	Main Street Historic District	No
Mississippi	Marble Springs Historic District	No
Mississippi	Margaret Emilie (Schooner)	No
Mississippi	Mary Walker Marina	No
Mississippi	Mccrae Dead River Pas. Wma	No
Mississippi	Mellini Point Reef	No
Mississippi	Milner House	No
Mississippi	Mississippi Choctaw: Ocean Springs	No
Mississippi	Miss-La-Bama	No
Mississippi	Moses Pier Reef	No
Mississippi	Napolean Landing	No
Mississippi	Napoleon Park & Boat Ramp	No
Mississippi	Nativity Bvm Cathedral	No
Mississippi	Naval Hospital Reef	No
Mississippi	Nelson Tenement	No
Mississippi	Nelson, John C., House	No
Mississippi	Nps Pier	No
Mississippi	Nps Ranger Station	No
Mississippi	Ocean Springs Beach	No
Mississippi	Ocean Springs Community Center	No
Mississippi	Ocean Springs Community Pier Reef	No
Mississippi	Ocean Springs Harbor Pier Reef	No
Mississippi	Ocean Springs Koa	No
Mississippi	Ocean Springs Yacht Club	No
Mississippi	O'keefe--Clark Boarding House	No
Mississippi	Old Farmers And Merchants State Bank	No
Mississippi	Old Fort Bayou Boat Ramp	No
Mississippi	Old Highway 90 Bridge Reef East	No
Mississippi	Old Highway 90 Bridge Reef West	No
Mississippi	Old Hwy 90 Pier	No
Mississippi	Old Oak Marina Campground	No
Mississippi	Old Ocean Springs High School	No
Mississippi	Old Ocean Springs Historic District	No
Mississippi	Olsen, Lena, House	No
Mississippi	Onward Oaks	No
Mississippi	Paiges Bayou Marina	No
Mississippi	Pascagoula Beach	No
Mississippi	Pascagoula Central Fire Station No. 1	No
Mississippi	Pascagoula Front Beach Reef	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Mississippi	Pascagoula Inner Harbor Marina	No
Mississippi	Pascagoula River Park Boat Ramp	No
Mississippi	Pascagoula River Reef Site 1	No
Mississippi	Pascagoula River Reef Site 3	No
Mississippi	Pascagoula St Rr And Power Company	No
Mississippi	Pass Christian Harbor Fishing Pier	No
Mississippi	Pass Christian Yacht Club	No
Mississippi	Pearl River Marina	No
Mississippi	Pearlington Boat Ramp	No
Mississippi	Peoples Bank Of Biloxi	No
Mississippi	Point Cadet Marina	No
Mississippi	Point-O-Pines Fishing Camp	No
Mississippi	Pollock Ferry Boat Ramp	No
Mississippi	Poor John's Campground	No
Mississippi	Popps Ferry Causeway Boat Ramp	No
Mississippi	Popps Ferry Fishing Camp	No
Mississippi	Private Pier	No
Mississippi	Quarles, W. J., House And Cottage	No
Mississippi	Randall's Tavern	No
Mississippi	Recreational Fishing	No
Mississippi	Redding House	No
Mississippi	Reed, Pleasant, House	No
Mississippi	Rocket Propulsion Test Complex	No
Mississippi	Round Island Jetty	No
Mississippi	Round Island Lighthouse	No
Mississippi	Rue Dauphin Boat Ramp	No
Mississippi	Saenger Theater	No
Mississippi	Saint John's Episcopal Church	No
Mississippi	Scenic Drive Historic District	No
Mississippi	Scherer House	No
Mississippi	Seashore Campground School	No
Mississippi	Shearwater Historic District	No
Mississippi	Shingle Mill Fishing Camp	No
Mississippi	Southern Comfort Campground	No
Mississippi	Spoil Island North Reef	No
Mississippi	Spoil Island South Reef	No
Mississippi	Square Handkerchief Key	No
Mississippi	St. Martin Road Boat Ramp	No
Mississippi	St. Mary's By The River	No
Mississippi	Stennis International, Bay St Louis	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Mississippi	Sullivan--Charnley Historic District	No
Mississippi	Suter House	No
Mississippi	Swetman, Glenn, House	No
Mississippi	Sycamore Street Historic District	No
Mississippi	Tabor, Dr. Joseph A., House	No
Mississippi	Taylor House	No
Mississippi	Taylor School	No
Mississippi	Tegarden Reef	No
Mississippi	Thompson, George, House	No
Mississippi	Thornton Ave. Reef	No
Mississippi	Toledano-Philbrick-Tullis House	No
Mississippi	Tower Bridge St. Boat Ramp	No
Mississippi	Trent Lott International	No
Mississippi	Tuceis Fishing Camp	No
Mississippi	Turkey Bayou Airpark, Lakeshore	No
Mississippi	U.S.P.S., Courthouse, And Customhouse	No
Mississippi	U.S.S. Cairo	No
Mississippi	Urie Pier North	No
Mississippi	Us Post Office And Customhouse	No
Mississippi	Usm Reef	No
Mississippi	Va Hospital Reef	No
Mississippi	Vancleave Cottage	No
Mississippi	W. Beach Blvd. Boat Ramp	No
Mississippi	Washington St. Fishing Pier	No
Mississippi	Washington Street Historic District	No
Mississippi	Waveland Fishing Pier	No
Mississippi	Waveland Municipal Pier	No
Mississippi	Waveland Pier Reef	No
Mississippi	Waveland Rubble Reef 2	No
Mississippi	Webb School	No
Mississippi	West Beach Historic District	No
Mississippi	West Central Historic District	No
Mississippi	West River Marina	No
Mississippi	Westphal, Laura, House	No
Mississippi	Whitehouse Reef	No
Mississippi	Wick's Fishing Camp	No
Mississippi	Wilkerson Ferry Ramp	No
Texas	2 Js Ramp	No
Texas	3321 Westside	No
Texas	8-Mile Road Bait Camp Ramp	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Texas	Acoe Wallisville Lake Project	No
Texas	Air Logistics - Freeport	No
Texas	Air Logistics Sabine	No
Texas	Allen & Cleo's Boat Storage & Marina	No
Texas	Amoco	No
Texas	Anchorage Apartments & Marina	No
Texas	Arco High Island	No
Texas	Arco Sabine	No
Texas	Artificial Reef	No
Texas	Austinia	No
Texas	Bailey's Fish Camp	No
Texas	Bal Harbour Association	No
Texas	Banana Bend Park	No
Texas	Bastrop Bayou County Rd 227 State Ramp	No
Texas	Bastrop Bayou Ramp At Cr 227	No
Texas	Bastrop Marina	No
Texas	Battleground Park	No
Texas	Bay Area Park	No
Texas	Bay Harbor Ramp	No
Texas	Baycoast Medical Center	No
Texas	Bayland Park Marina	No
Texas	Bayou Marina	No
Texas	Bayou Rv Park	No
Texas	Bayshore Boat Ramp	No
Texas	Baytown Area Water Authority	No
Texas	Baytown Marina	No
Texas	Baytown Nature Center	No
Texas	Bayview Marina Ramp	No
Texas	Beach Access	No
Texas	Beach Bait And Tackle Ramp	No
Texas	Beaumont Yacht Club	No
Texas	Ben Blackledge	No
Texas	Bennets Motel Ramp	No
Texas	Blue Bird Fish Camp	No
Texas	Blue Dolphin Yachting Center	No
Texas	Boat Ramp	No
Texas	Bolivar Yacht Basin	No
Texas	Brazos River Ramp At East Lener Rd	No
Texas	Bridge Bait Boat Ramp	No
Texas	Bridge City Bait	No



<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Texas	Bridge Cove Marina Ramp	No
Texas	Bridge Harbor Marina	No
Texas	Brown & Root-Clinton	No
Texas	Buccaneer Shore Facility	No
Texas	Caney Creek Marina	No
Texas	Capt. Wicks Landing	No
Texas	Cecil's Red Lantern	No
Texas	Chambers County	No
Texas	Charlies Bait Ramp	No
Texas	Chesson	No
Texas	Chevron Phillips Pasadena Plastics	No
Texas	Chinquapin Ramp	No
Texas	Chocolate Bayou Ramp At Fm 2004	No
Texas	Christus St Joseph Hospital	No
Texas	Christus St. John Hospital	No
Texas	Cig 816	No
Texas	City Of Anahuac	No
Texas	City Of Beaumont Water Utility Dep	No
Texas	City Of Freeport	No
Texas	City Of Groves	No
Texas	City Of Houston	No
Texas	City Of Nederland	No
Texas	City Of Port Arthur	No
Texas	City Of Port Neches	No
Texas	City Of Rose City	No
Texas	Clear Lake Marine Center	No
Texas	Clear Lake Park Boat Ramp	No
Texas	Clear Lake Shores Public Ramp	No
Texas	County Ramp	No
Texas	Cow Bayou	No
Texas	Creasy	No
Texas	D And C Fishfarm Inc	No
Texas	Dailey Inc	No
Texas	Dam	No
Texas	Dianal America Inc	No
Texas	Dickinson Bayou Ramp	No
Texas	Dixie Chemical Co Plant B	No
Texas	Dixie Chemical Company Plant A	No
Texas	Dollar Point Public Ramp	No
Texas	Double Bayou Park	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Texas	Dow Chemical Company Plant A	No
Texas	Dow Chemical Company Plant B	No
Texas	Dr. Lloyd K. Lauderdale Ramp	No
Texas	Dresser Industries/Magcobar/	No
Texas	Drv Downtown Houston Aquarium	No
Texas	Dupont Sabine River Works	No
Texas	Eagle Air	No
Texas	Eagle Point Fishing Camp	No
Texas	Eagle Point Marina	No
Texas	Elissa	No
Texas	Emergency-1 Houston Center	No
Texas	Era Helicopters Sabine Base	No
Texas	Erman Pilsner Small Boat Ramp	No
Texas	Ethyl Corp	No
Texas	Evergreen Helicopters	No
Texas	Fat Boy's Ramp	No
Texas	Fina Bayport	No
Texas	First City Financial Center	No
Texas	Fm 521	No
Texas	Fort Anahuac Park	No
Texas	Fort Travis Seashore Park	No
Texas	Freeport Community Center Public Ramp	No
Texas	Freeport Municipal Park Public Ramp	No
Texas	Freeport New Brazos River Public Ramp	No
Texas	Galveston Bait And Tackle	No
Texas	Galveston County Park Ramp	No
Texas	Galveston Seawall	No
Texas	Galveston Yacht Basin	No
Texas	Galvestonian	No
Texas	Galvez Hotel	No
Texas	Gellhorn Pad	No
Texas	Go Helitrans	No
Texas	Gov Hole Boat Ramp	No
Texas	Gulf Coast Water Authority Tx City	No
Texas	Gulf Tower	No
Texas	Halbert Fish Farm	No
Texas	Harbor Boat Ramp	No
Texas	Hercules Marine Services Corp	No
Texas	Hhi Hitchcock	No
Texas	Hhi-Sabine	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Texas	High Island Boat Ramp	No
Texas	Hitchcock Boat Ramp	No
Texas	HI&P South Houston Helistop	No
Texas	Horseshoe Bend Ramp	No
Texas	Houston Oil & Minerals Port Bolivar	No
Texas	Houston Oil & Minerals Port Bolivar Nr 2	No
Texas	Houston Oil & Minerals Smith Point	No
Texas	Houston Police Command Station	No
Texas	Houston Yacht Club	No
Texas	Hugo Point	No
Texas	Hwy 87	No
Texas	Jabo's Tacklebox	No
Texas	Jack Brooks Rgnl	No
Texas	Jamacia Beach Boat Ramp	No
Texas	James Robbins Park	No
Texas	Jefferson County Wcid 10	No
Texas	Job Beason Park	No
Texas	Johnnie Volk Field	No
Texas	Johnson Space Center	No
Texas	Kemah Boardwalk Marina	No
Texas	Kemah Waterfront	No
Texas	Kirby Marina	No
Texas	La Porte Muni	No
Texas	La Porte Plant	No
Texas	Lake Anahuac Boat Ramp	No
Texas	Lakeside Yachting Center	No
Texas	Lakewood Yacht Club	No
Texas	Legend Point Marina	No
Texas	Lewis Electric Apparatus Repair Inc	No
Texas	Linda's	No
Texas	Lock	No
Texas	Loitias Landing	No
Texas	Louis Bait Camp	No
Texas	Lpc	No
Texas	Lucite Beaumont Site	No
Texas	Lutes Marina Ramp And Lift	No
Texas	Lyndon B Johnson General Hospital	No
Texas	Lyondellbasell Bayport Polymers	No
Texas	Mainland Rgnl Health Care System	No
Texas	Marina Del Sol	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Texas	Marine Consultants Inc	No
Texas	Marker 1 Marina	No
Texas	Marlin Marina Ramp	No
Texas	Matagorda Harbor	No
Texas	Matagorda Shore Facility	No
Texas	Matagorda Turning Basin Boat Stalls	No
Texas	Medical Center Of Southeast Texas	No
Texas	Memorial Hospital	No
Texas	Mfs Sabine Pass	No
Texas	M-I Drilling Fluids Company	No
Texas	Midstream Freeport	No
Texas	Midstream Galveston Helipad Area Nr 1	No
Texas	Midstream Galveston Helipad Area Nr 2	No
Texas	Miracle Beach	No
Texas	Mitchells Cut Public Ramp	No
Texas	Mitchell's Pleasure Pier	No
Texas	Moses Lake Marina	No
Texas	Moses Lake Marina Ramp	No
Texas	Mosquito Fleet Berth, Pier 19	No
Texas	Nassau Bay Hilton Marina	No
Texas	Nassau Bay Yacht Club	No
Texas	Ne Police Station Nr 2	No
Texas	Noah J. Welch Ramp	No
Texas	North Star Steel Texas	No
Texas	Old Coast Guard Station Ramp	No
Texas	Orange County	No
Texas	Oyster Bayou Ramp	No
Texas	Oyster Creek Ramp	No
Texas	Oyster Creek Ramp At Cr 227	No
Texas	Oyster Leases	No
Texas	P P H	No
Texas	Parc At Marina Landing	No
Texas	Patco	No
Texas	Payco Marina	No
Texas	Petroleum Helicopters Inc	No
Texas	Piping Plover Critical Habitat	No
Texas	Pleasure Island	No
Texas	Pleasure Island Marina	No
Texas	Point Bolivar Lighthouse	No
Texas	Police	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Texas	Police Headquarters	No
Texas	Police Helicopter Patrol	No
Texas	Port Arthur Federated Women's Clubhouse	No
Texas	Port Arthur--Orange Bridge	No
Texas	Port Neches Park	No
Texas	Portofino Harbor	No
Texas	Public Boat Ramp	No
Texas	Quintana Bridge Public Ramp	No
Texas	Rainbow Marina	No
Texas	Rawlings Ramp	No
Texas	Ray's Bait Camp	No
Texas	Red Barn	No
Texas	Rental Tools	No
Texas	Republic Helicopters	No
Texas	River Terrace Park	No
Texas	Riverside Inn Marina	No
Texas	Roseland Park	No
Texas	Rowan	No
Texas	Rwj Airpark	No
Texas	Sabine Pass	No
Texas	Sabine Pass Battleground	No
Texas	Sabine Pass Port Authority	No
Texas	Sabine Station/Ant	No
Texas	San Bernard River Public Ramp	No
Texas	San Jacinto College Central Campus	No
Texas	San Jacinto Methodist Hospital	No
Texas	San Leon Marina	No
Texas	San Luis Pass County Park	No
Texas	San Luis Resort	No
Texas	Sansom And Yarbrough	No
Texas	Sassy Lady Tugboat Annie's	No
Texas	Schaper Public Ramp	No
Texas	Scholes Intl At Galveston	No
Texas	Sea Lsle Ramp	No
Texas	Sea Rim State Park	No
Texas	Seabrook Boat Ramp	No
Texas	Seabrook Shipyard	No
Texas	Seafood Warehouse Park	No
Texas	Seawolf Park	No
Texas	Sector Houston/Galveston	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Texas	Sh 73 Ramp	No
Texas	Sheldon Reservoir Access	No
Texas	Shell Deer Park Refinery	No
Texas	Shell Pelican Island	No
Texas	Slack	No
Texas	South Shore Harbour Marina	No
Texas	Sportsman Road Ramp	No
Texas	St Mary Hospital Of Port Arthur	No
Texas	St. Nick's Marina	No
Texas	Sterling, Ross,S., House	No
Texas	Stewart Beach Park	No
Texas	Stingaree Marina	No
Texas	Sunny Travis Boat Ramp	No
Texas	Sylvan Beach Boat Ramp	No
Texas	Tackle Time Ramp	No
Texas	Tbcd West Treatment Plant	No
Texas	Tdcj/Southern Rgnl Medical Facility	No
Texas	Tenneco Shorebase	No
Texas	Texaco Chemical Company-East	No
Texas	Texas City Dike Public Ramp	No
Texas	Texas Commerce Bank Building	No
Texas	The Wharf At Clear Lake	No
Texas	Thermal Game Fish Refuge	No
Texas	Thompson Fish Camp	No
Texas	Three Stars Marina Ramp	No
Texas	Top Water Grill Ramp	No
Texas	Topwater Restaurant And Marina	No
Texas	Tourist Ride Services	No
Texas	Tpw Ramp Under 270 Bridge	No
Texas	U Of Texas Medical Branch Emergency Room	No
Texas	U Of Texas Medical Branch Ewing Hall	No
Texas	U.S.S. Cavalla	No
Texas	U.S.S. Texas	No
Texas	Under The Bridge Bar Bait Camp Ramp	No
Texas	Uscg Freeport	No
Texas	Uscg Mso Port Arthur	No
Texas	Uscg Port Safety Station	No
Texas	Veolia Port Arthur Facility	No
Texas	Vh McBride Boat Ramp	No
Texas	Village Of Surfside Public Ramp	No

<b>State</b>	<b>Name</b>	<b>Included in Analysis</b>
Texas	Wallisville Lake Project	No
Texas	Wallisville Project	No
Texas	Walter Hall County Park	No
Texas	Walter Humphrey	No
Texas	Washington Park	No
Texas	Waterford Harbor Yacht Club	No
Texas	Watergate Yachting Center	No
Texas	Watermans	No
Texas	West Bay Marina	No
Texas	West Line Ditch	No
Texas	Whites Park	No
Texas	William P Hobby	No